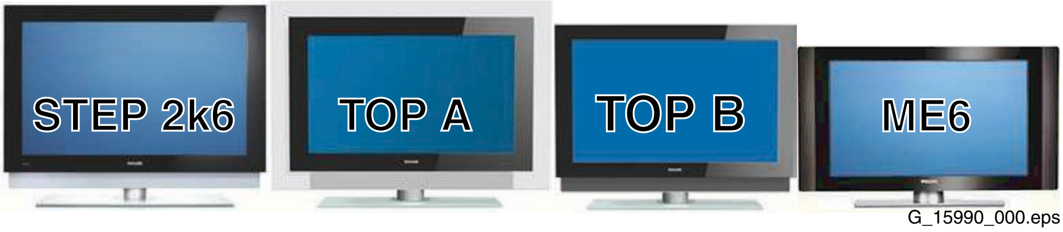
Colour Television

Chassis

FJ3.0E
LA

Service
Service
Service



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ServiceManual

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1. Technical Specifications, Connections, and Chassis Overview

Index of this chapter:

1.1 Technical Specifications
1.2 Connections
1.3 Chassis Overview

Notes:
- Figures can deviate due to the different set executions.
- Specifications are indicative (subject to change).

1.1 Technical Specifications

1.1.1 Vision

Display type	LCD
Screen size	32" (82 cm), 16:9
	37" (94 cm), 16:9
	42" (107 cm), 16:9
Resolution (HxV pixels)	32": 1366(*3)x768
	37": 1920(*3)x1080
	42": 1366(*3)x768
Light output (cd/m^2)	550
Viewing angle (HxV degrees)	176
Tuning system	PLL
Colour systems	PAL B/G, D/K, I
	SECAM B/G, D/K, L/L'
Supported computer formats (60 Hz)	640x480
	800x600
	1024x768
Supported video formats	640x480i - 1fH
	720x576i - 1fH
	640x480p - 2fH
	720x576p - 2fH
	1920x1080i - 2fH
	1280x720p - 3fH
AV (playback only)	NTSC, PAL, SECAM
Tuner bands	UHF, VHF, S, Hyper

1.1.2 Sound

Sound systems	AV stereo,
	2CS B/G, D/K
	NIC. B/G, D/K, I, L/L'
Maximum power (W_{RMS})	2 x 15
	2 x 12 + 1 x 24 (42PF9831/69)

1.1.3 Multimedia

Supported digital media (only in sets equipped with memory card slot)	Compact Flash I & II
	Memory Stick
	Microdrive
	SD Card
	Multi Media Card
	Smart Media Card
Supported file formats	JPEG
	MP3
	Slideshow (.alb)
	DivX 3.11 and 5 (only 32PF9731D/10, 37" and 42")
	MPEG1, 2
	MPEG4 (only 32PF9731D/10, 37" and 42")
	XviD (only 32PF9731D/10, 37" and 42")
USB input	USB2.0
Multimedia connections	7-in-1 Memory Card Reader (only 37" and some 42" sets)
Multimedia connections (37PF9731D/10 and 42PF9731D/10)	Ethernet-UTP5
	UPnP
	WiFi (opt. ethernet-bridge)

1.1.4 Miscellaneous

Power supply:	
- Mains voltage (V_{AC})	220 - 240
- Mains frequency (Hz)	50 / 60
Ambient conditions:	
- Temperature range (°C)	+5 to +40
- Maximum humidity	90% R.H.
Power consumption (values are indicative)	
- Normal operation (W)	32": 163
	37": 185
	42": 248
- Standby (W)	< 2
Dimensions (WxHxD cm)	
- 32PF9531/10 and 32PF9631D/10	935x516x120
- 32PF9731D/10	869x625x114
- 37PF9731/69 and 37PF9731D/10	991x707x114
- 42PF9641D/10	t.b.f.
- 42PF9731D/10	1095x764x114
- 42PF9831/69	1279x872x114
Weight (kg)	
- 32PF9531/10 and 32PF9631D/10	18.7
- 32PF9731D/10	20.4
- 37PF9731/69 and 37PF9731D/10	26
- 42PF9641D/10	31
- 42PF9731D/10	35
- 42PF9831/69	38

1.2 Connections

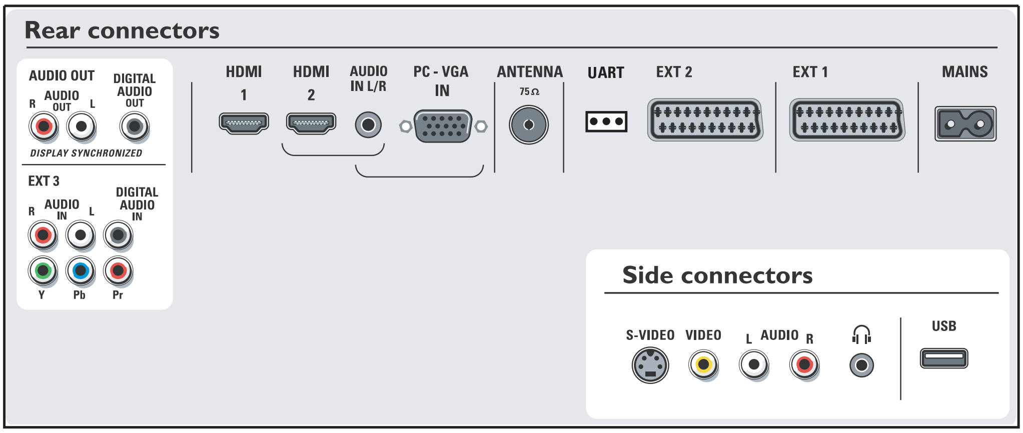
Rear connectors
AUDIO OUT
R AUDIO OUT L
DIGITAL AUDIO OUT
DISPLAY SYNCHRONIZED
EXT 3
R AUDIO IN L
DIGITAL AUDIO IN
Y
Pb
Pr
HDMI 1
HDMI 2
AUDIO IN L/R
PC - VGA IN
ANTENNA 75 Ω
UART
EXT 2
EXT 1
MAINS
Side connectors
S-VIDEO
VIDEO
L AUDIO R
USB

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Figure 1-1 Connection overview 32PF9531/10

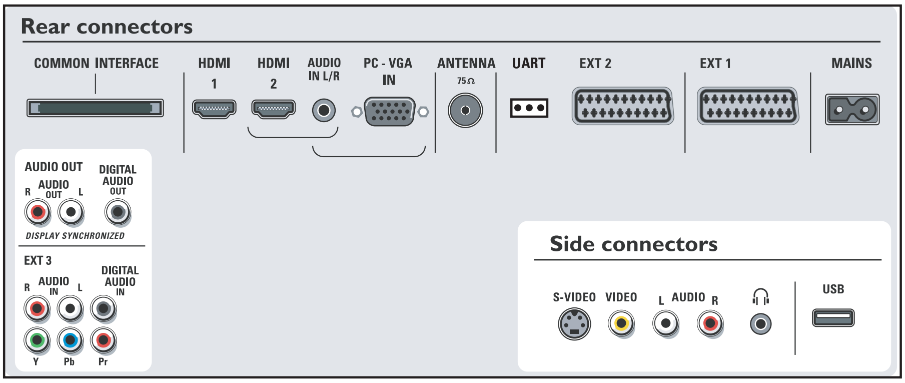
Rear connectors
COMMON INTERFACE
HDMI 1
HDMI 2
AUDIO IN L/R
PC - VGA IN
ANTENNA 75 Ω
UART
EXT 2
EXT 1
MAINS
AUDIO OUT
R AUDIO OUT L
DIGITAL AUDIO OUT
DISPLAY SYNCHRONIZED
EXT 3
R AUDIO IN L
DIGITAL AUDIO IN
Y
Pb
Pr
Side connectors
S-VIDEO
VIDEO
L AUDIO R
USB

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Figure 1-2 Connection overview 32PF9631D/10

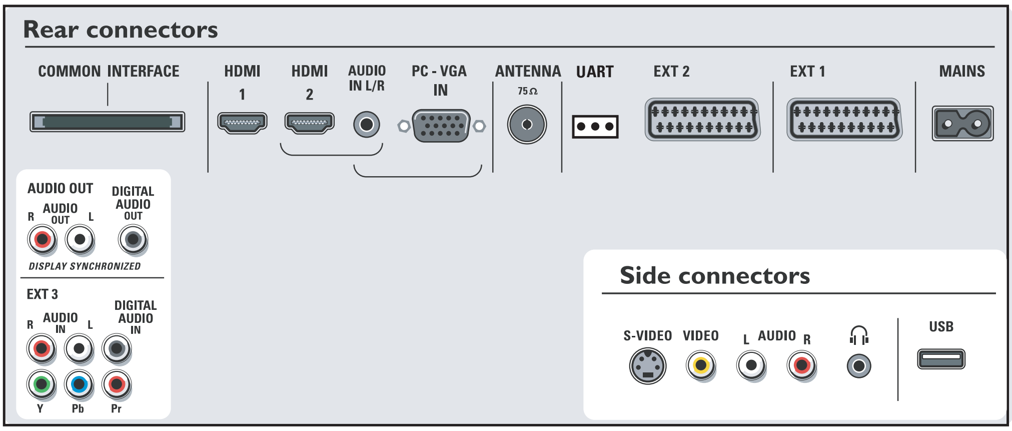
Rear connectors
COMMON INTERFACE
HDMI 1
HDMI 2
AUDIO IN L/R
PC - VGA IN
ANTENNA 75 Ω
UART
EXT 2
EXT 1
MAINS
AUDIO OUT
R AUDIO OUT L
DIGITAL AUDIO OUT
DISPLAY SYNCHRONIZED
EXT 3
R AUDIO IN L
DIGITAL AUDIO IN
Y
Pb
Pr
Side connectors
S-VIDEO
VIDEO
L AUDIO R
USB

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Figure 1-3 Connection overview 32PF9731D/10

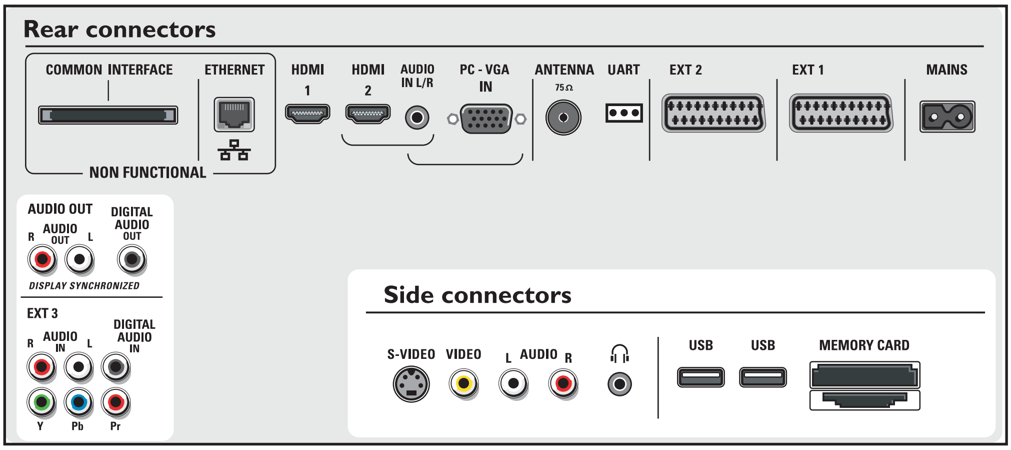
Rear connectors
COMMON INTERFACE
ETHERNET
NON FUNCTIONAL
HDMI 1
HDMI 2
AUDIO IN L/R
PC - VGA IN
ANTENNA 75Ω
UART
EXT 2
EXT 1
MAINS
AUDIO OUT
R AUDIO OUT L
DIGITAL AUDIO OUT
DISPLAY SYNCHRONIZED
EXT 3
R AUDIO IN L
DIGITAL AUDIO IN
Y Pb Pr
Side connectors
S-VIDEO
VIDEO
L AUDIO R
USB
USB
MEMORY CARD

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Figure 1-4 Connection overview 37PF9731/69 & 42PF9831/69

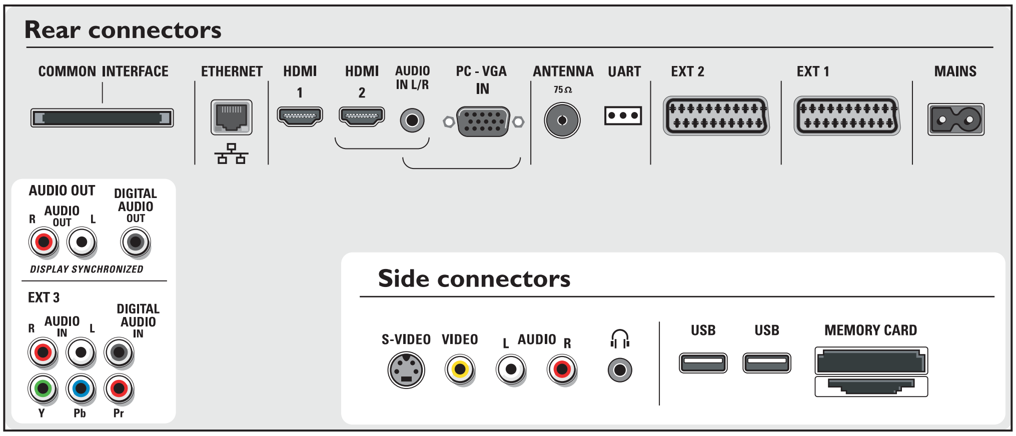
Rear connectors
COMMON INTERFACE
ETHERNET
HDMI 1
HDMI 2
AUDIO IN L/R
PC - VGA IN
ANTENNA 75Ω
UART
EXT 2
EXT 1
MAINS
AUDIO OUT
R AUDIO OUT L
DIGITAL AUDIO OUT
DISPLAY SYNCHRONIZED
EXT 3
R AUDIO IN L
DIGITAL AUDIO IN
Y Pb Pr
Side connectors
S-VIDEO
VIDEO
L AUDIO R
USB
USB
MEMORY CARD

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Figure 1-5 Connection overview 37PF9731D/10 & 42PF9731D/10 & 42PF9831D/10

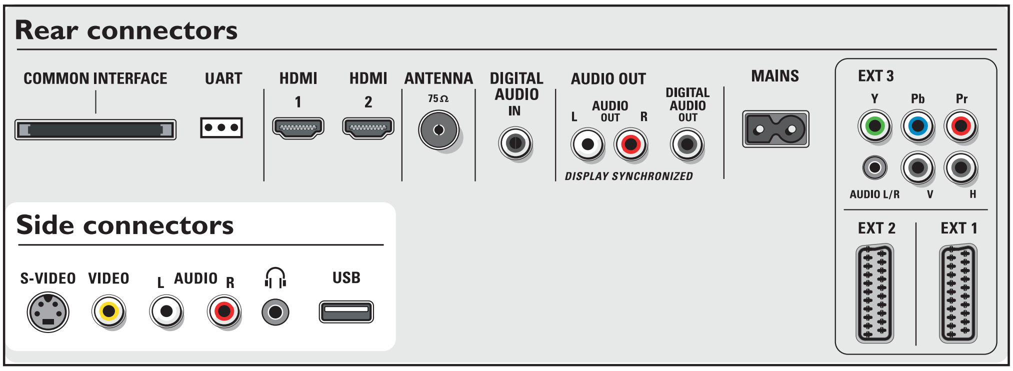
Rear connectors
COMMON INTERFACE
UART
HDMI 1
HDMI 2
ANTENNA 75Ω
DIGITAL AUDIO IN
AUDIO OUT
L AUDIO OUT R
DIGITAL AUDIO OUT
DISPLAY SYNCHRONIZED
MAINS
EXT 3
Y Pb Pr
AUDIO L/R V H
EXT 2
EXT 1
Side connectors
S-VIDEO
VIDEO
L AUDIO R
USB

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Figure 1-6 Connection overview 42PF9641D/10

Note: The following connector colour abbreviations are used (acc. to DIN/IEC 757): Bk= Black, Bu= Blue, Gn= Green, Gy= Grey, Rd= Red, Wh= White, Ye= Yellow.

1.2.1 Side Connections

Headphone (Output)

Bk	- Headphone	32 - 600 ohm / 10 mW

Cinch: Video CVBS - In, Audio - In

Rd	- Audio R	$0.5\ V_{RMS}$ / 10 kohm
Wh	- Audio L	$0.5\ V_{RMS}$ / 10 kohm
Ye	- Video CVBS	$1\ V_{PP}$ / 75 ohm

S-Video (Hosiden): Video Y/C - In

1	- Ground Y	Gnd
2	- Ground C	Gnd
3	- Video Y	$1\ V_{PP}$ / 75 ohm
4	- Video C	$0.3\ V_{PP}P$ / 75 ohm

USB2.0

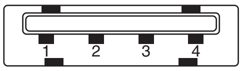

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Figure 1-7 USB (type A)

1	- +5V		○→
2	- Data (-)		→○○→
3	- Data (+)		→○○→
4	- Ground	Gnd	⏚

1.2.2 Rear Connections

Common Interface

68p - See diagram B10A →○○→

RJ45: Ethernet (if present)

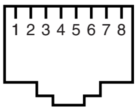

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Figure 1-8 Ethernet connector

1	- TD+	Transmit signal	○→
2	- TD-	Transmit signal	○→
3	- RD+	Receive signal	→○
4	- n.c.		
5	- n.c.		
6	- RD-	Receive signal	→○
7	- n.c.		
8	- n.c.		

HDMI 1 & 2: Digital Video, Digital Audio - In

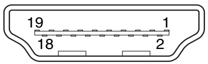

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Figure 1-9 HDMI (type A) connector

1	- D2+	Data channel	→○
2	- Shield	Gnd	⏚
3	- D2-	Data channel	→○
4	- D1+	Data channel	→○
5	- Shield	Gnd	⏚
6	- D1-	Data channel	→○
7	- D0+	Data channel	→○
8	- Shield	Gnd	⏚
9	- D0-	Data channel	→○
10	- CLK+	Data channel	→○
11	- Shield	Gnd	⏚
12	- CLK-	Data channel	→○
13	- n.c.		
14	- n.c.		
15	- DDC_SCL	DDC clock	→○
16	- DDC_SDA	DDC data	→○○→
17	- Ground	Gnd	⏚
18	- +5V		→○
19	- HPD	Hot Plug Detect	→○
20	- Ground	Gnd	⏚

Cinch: Audio - In

Rd	- Audio - R	0.5 V_{RMS} / 10 kohm	○→◎
Wh	- Audio - L	0.5 V_{RMS} / 10 kohm	○→◎

VGA: Video RGB - In

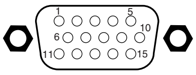

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Figure 1-10 VGA Connector

1	- Video Red	0.7 V_{PP} / 75 ohm	→○
2	- Video Green	0.7 V_{PP} / 75 ohm	→○
3	- Video Blue	0.7 V_{PP} / 75 ohm	→○
4	- n.c.		
5	- Ground	Gnd	⏚
6	- Ground Red	Gnd	⏚
7	- Ground Green	Gnd	⏚
8	- Ground Blue	Gnd	⏚
9	- +$5V_{DC}$	+5 V	→○
10	- Ground Sync	Gnd	⏚
11	- n.c.		
12	- DDC_SDA	DDC data	→○
13	- H-sync	0 - 5 V	→○
14	- V-sync	0 - 5 V	→○
15	- DDC_SCL	DDC clock	→○

Aerial - In

	- IEC-type	Coax, 75 ohm	╥

Digital Audio In: Cinch: S/PDIF - In

Bk	- Coaxial	0.2 - 0.6V_{PP} / 75 ohm	→○◎

EXT2: Video RGB/YC - In, CVBS - In/Out, Audio - In/Out

1	- Audio R	0.5 V_{RMS} / 1 kohm	○→
2	- Audio R	0.5 V_{RMS} / 10 kohm	→○
3	- Audio L	0.5 V_{RMS} / 1 kohm	○→
4	- Ground Audio	Gnd	⏚
5	- Ground Blue	Gnd	⏚
6	- Audio L	0.5 V_{RMS} / 10 kohm	→○
7	- Video Blue/C-out	0.7 V_{PP} / 75 ohm	→○○→
8	- Function Select	0 - 2 V: INT 4.5 - 7 V: EXT 16:9 9.5 - 12 V: EXT 4:3	→○
9	- Ground Green	Gnd	⏚
10	- Easylink P50	0 - 5 V / 4.7 kohm	→○○→
11	- Video Green/Y	0.7 V_{PP} / 75 ohm	→○
12	- n.c.		
13	- Ground Red	Gnd	⏚
14	- Ground P50	Gnd	⏚
15	- Video Red/C	0.7 V_{PP} / 75 ohm	→○
16	- Status/FBL	0 - 0.4 V: INT 1 - 3 V: EXT / 75 ohm	→○
17	- Ground Video	Gnd	⏚
18	- Ground FBL	Gnd	⏚
19	- Video CVBS	1 V_{PP} / 75 ohm	○→
20	- Video CVBS/Y	1 V_{PP} / 75 ohm	→○
21	- Shield	Gnd	⏚

EXT1: Video RGB - In, CVBS - In/Out, Audio - In/Out

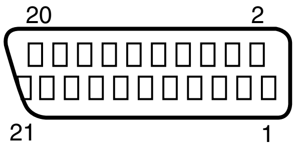

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Figure 1-11 SCART connector

1	- Audio R	0.5 V_{RMS} / 1 kohm	○→
2	- Audio R	0.5 V_{RMS} / 10 kohm	→○
3	- Audio L	0.5 V_{RMS} / 1 kohm	○→
4	- Ground Audio	Gnd	⏚
5	- Ground Blue	Gnd	⏚
6	- Audio L	0.5 V_{RMS} / 10 kohm	→○
7	- Video Blue	0.7 V_{PP} / 75 ohm	→○○→
8	- Function Select	0 - 2 V: INT 4.5 - 7 V: EXT 16:9 9.5 - 12 V: EXT 4:3	→○
9	- Ground Green	Gnd	⏚
10	- Easylink P50	0 - 5 V / 4.7 kohm	→○○→
11	- Video Green	0.7 V_{PP} / 75 ohm	→○
12	- n.c.		
13	- Ground Red	Gnd	⏚
14	- Ground P50	Gnd	⏚
15	- Video Red	0.7 V_{PP} / 75 ohm	→○
16	- Status/FBL	0 - 0.4 V: INT 1 - 3 V: EXT / 75 ohm	→○
17	- Ground Video	Gnd	⏚
18	- Ground FBL	Gnd	⏚
19	- Video CVBS	1 V_{PP} / 75 ohm	○→
20	- Video CVBS	1 V_{PP} / 75 ohm	→○
21	- Shield	Gnd	⏚

Cinch: Audio - Out

Rd	- Audio - R	0.5 V_{RMS} / 10 kohm	○→◎
Wh	- Audio - L	0.5 V_{RMS} / 10 kohm	○→◎

Digital Audio Out: Cinch: S/PDIF - Out

Bk	- Coaxial	0.4 - 0.6V_{PP} / 75 ohm	○→◎

EXT3: Cinch: Audio - In

Rd	- Audio - R	0.5 V_{RMS} / 10 kohm	○→◎
Wh	- Audio - L	0.5 V_{RMS} / 10 kohm	○→◎

EXT3: Digital Audio In: Cinch: S/PDIF - In

Bk	- Coaxial	0.2 - 0.6V_{PP} / 75 ohm	→○◎

EXT3: Cinch: Video YPbPr - In

Gn	- Video Y	1 V_{PP} / 75 ohm	→○◎
Bu	- Video Pb	0.7 V_{PP} / 75 ohm	→○◎
Rd	- Video Pr	0.7 V_{PP} / 75 ohm	→○◎

EXT3: Cinch: Video YPbPrHV- In

Gn	- Video Y	1 V_{PP} / 75 ohm	→○◎
Bu	- Video Pb	0.7 V_{PP} / 75 ohm	→○◎
Rd	- Video Pr	0.7 V_{PP} / 75 ohm	→○◎
Bk	- H-sync	0 - 5 V	→○◎
Bk	- V-sync	0 - 5 V	→○◎

EXT3: Mini Jack: Audio - In

Rd	- Audio R	0.5 V_{RMS} / 10 kohm	→○
Wh	- Audio L	0.5 V_{RMS} / 10 kohm	→○

Service Connector (UART)

1	- UART_TX	Transmit	○→
2	- Ground	Gnd	⏚
3	- UART_RX	Receive	→○

1.3 Chassis Overview

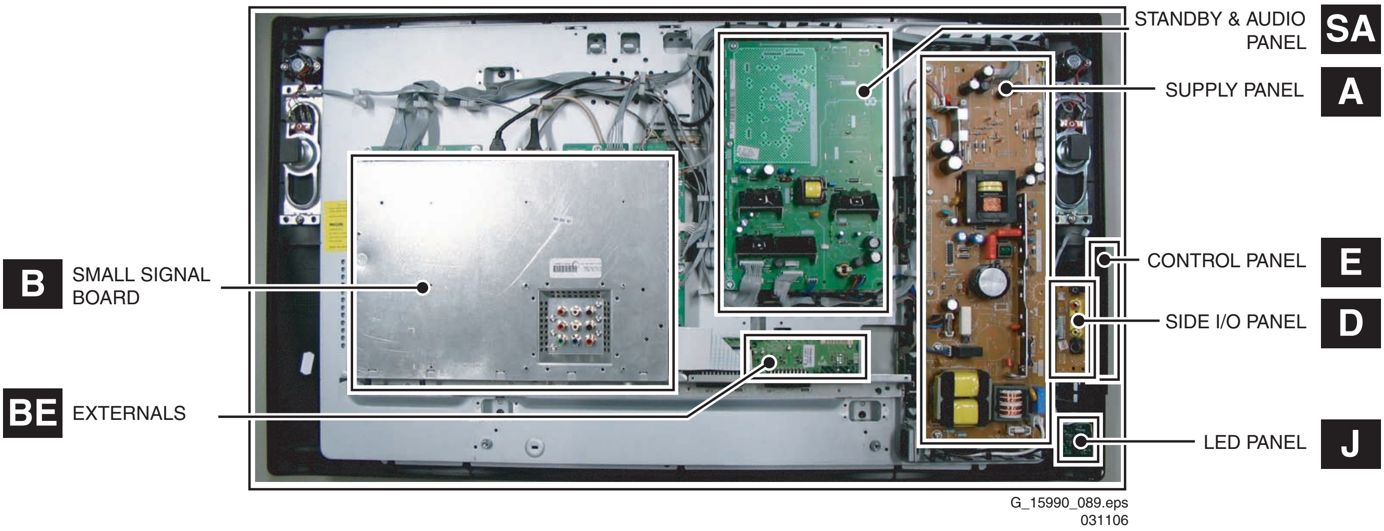
STANDBY & AUDIO PANEL
SA
SUPPLY PANEL
A
B
SMALL SIGNAL BOARD
CONTROL PANEL
E
SIDE I/O PANEL
D
BE
EXTERNALS
LED PANEL
J
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Figure 1-12 PWB/CBA locations ME6 styling (32PF9531/10 and 32PF9631D/10)

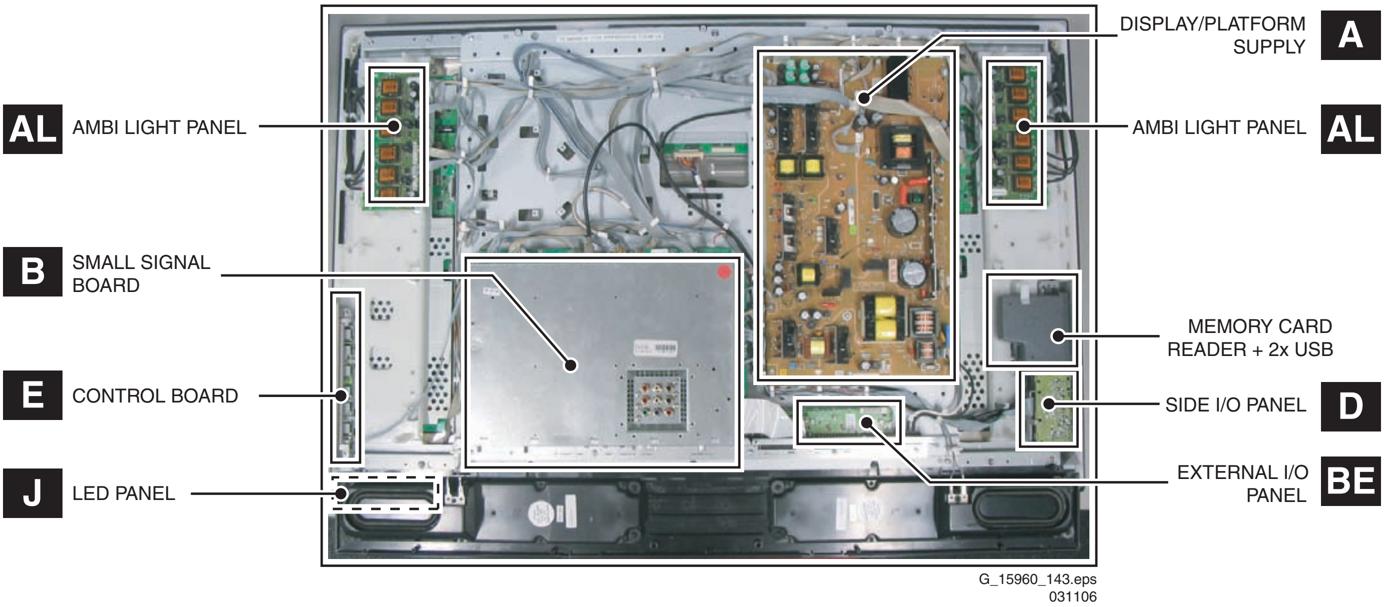
DISPLAY/PLATFORM SUPPLY
A
AL
AMBI LIGHT PANEL
AMBI LIGHT PANEL
AL
B
SMALL SIGNAL BOARD
MEMORY CARD READER + 2x USB
E
CONTROL BOARD
SIDE I/O PANEL
D
J
LED PANEL
EXTERNAL I/O PANEL
BE
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Figure 1-13 PWB/CBA locations Top B styling (32PF9731D/10, 37PF9731/69, 37PF9731D/10 and 42PF9731D/10)

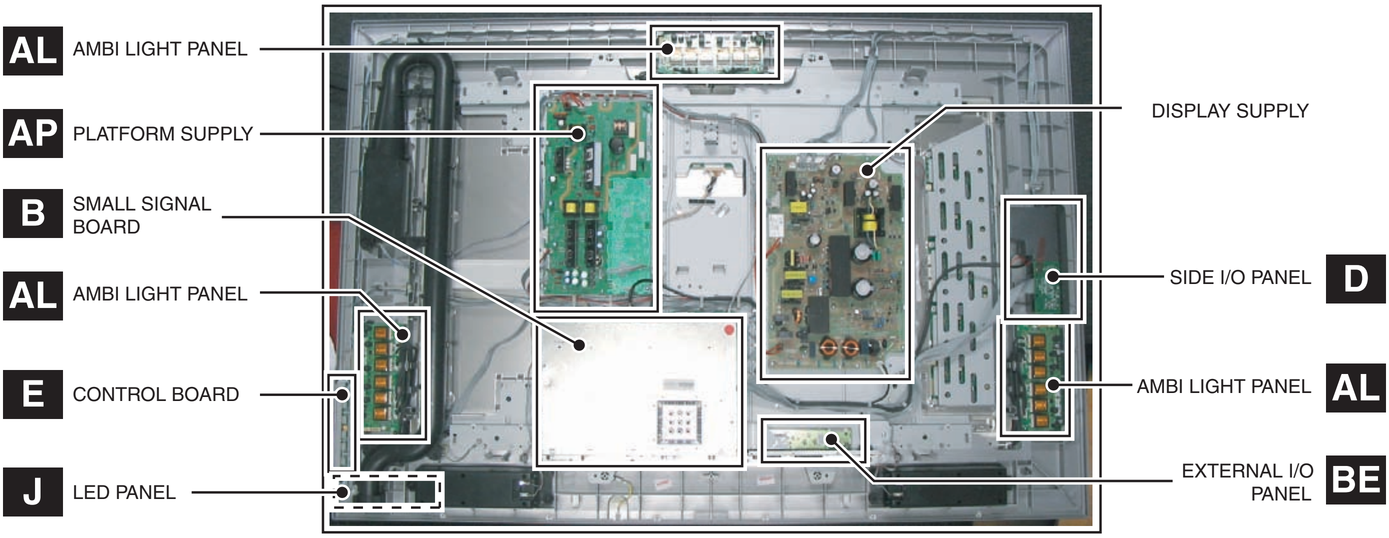
AL AMBI LIGHT PANEL
AP PLATFORM SUPPLY
B SMALL SIGNAL BOARD
AL AMBI LIGHT PANEL
E CONTROL BOARD
J LED PANEL
DISPLAY SUPPLY
SIDE I/O PANEL D
AMBI LIGHT PANEL AL
EXTERNAL I/O PANEL BE

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Figure 1-14 PWB/CBA locations Top A styling (42PF9831/69 and 42PF9831D/10)

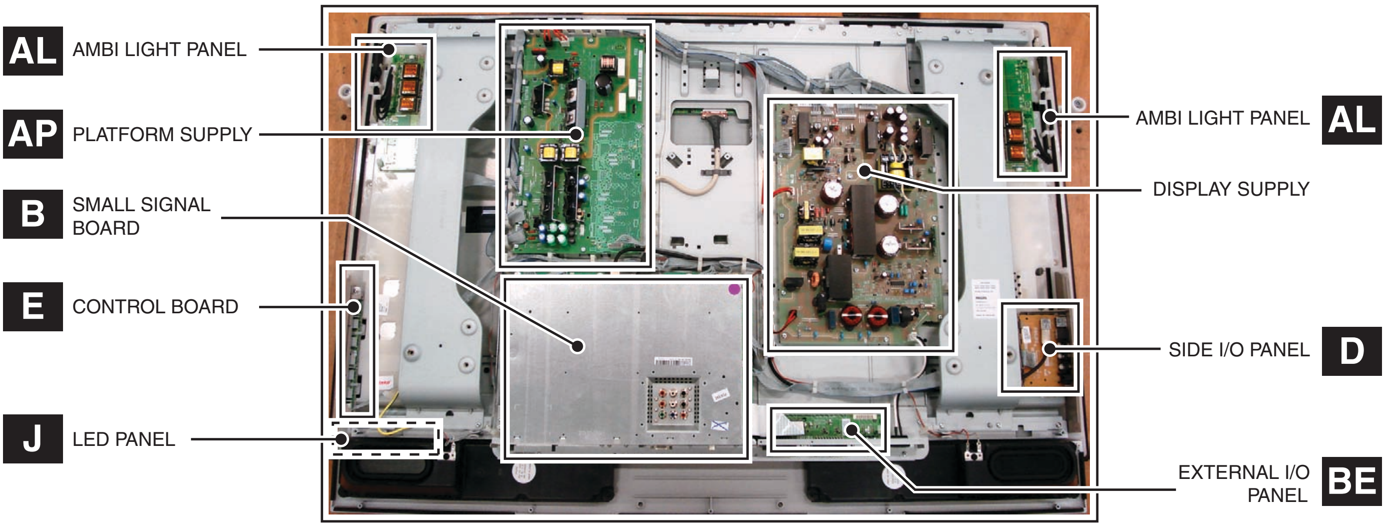
AL AMBI LIGHT PANEL
AP PLATFORM SUPPLY
B SMALL SIGNAL BOARD
E CONTROL BOARD
J LED PANEL
AMBI LIGHT PANEL AL
DISPLAY SUPPLY
SIDE I/O PANEL D
EXTERNAL I/O PANEL BE

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Figure 1-15 PWB/CBA locations Step 2k6 styling (42PF9641D/10)

2. Safety Instructions, Warnings, and Notes

Index of this chapter:

2.1 Safety Instructions
2.2 Warnings
2.3 Notes

2.1 Safety Instructions

Safety regulations require the following **during** a repair:

- Connect the set to the Mains/AC Power via an isolation transformer (> 800 VA).
- Replace safety components, indicated by the symbol ⚠, only by components identical to the original ones. Any other component substitution (other than original type) may increase risk of fire or electrical shock hazard.

Safety regulations require that **after** a repair, the set must be returned in its original condition. Pay in particular attention to the following points:

- Route the wire trees correctly and fix them with the mounted cable clamps.
- Check the insulation of the Mains/AC Power lead for external damage.
- Check the strain relief of the Mains/AC Power cord for proper function.
- Check the electrical DC resistance between the Mains/AC Power plug and the secondary side (only for sets that have a Mains/AC Power isolated power supply):
  1. Unplug the Mains/AC Power cord and connect a wire between the two pins of the Mains/AC Power plug.
  2. Set the Mains/AC Power switch to the "on" position (keep the Mains/AC Power cord unplugged!).
  3. Measure the resistance value between the pins of the Mains/AC Power plug and the metal shielding of the tuner or the aerial connection on the set. The reading should be between 4.5 Mohm and 12 Mohm.
  4. Switch "off" the set, and remove the wire between the two pins of the Mains/AC Power plug.
- Check the cabinet for defects, to prevent touching of any inner parts by the customer.

2.2 Warnings

- All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD ⚡). Careless handling during repair can reduce life drastically. Make sure that, during repair, you are connected with the same potential as the mass of the set by a wristband with resistance. Keep components and tools also at this same potential. Available ESD protection equipment:
  - Complete kit ESD3 (small tablemat, wristband, connection box, extension cable and earth cable) 4822 310 10671.
  - Wristband tester 4822 344 13999.
- Be careful during measurements in the high voltage section.
- Never replace modules or other components while the unit is switched "on".
- When you align the set, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.

2.3 Notes

2.3.1 General

- Measure the voltages and waveforms with regard to the chassis (= tuner) ground (⏚), or hot ground (⏛), depending on the tested area of circuitry. The voltages and waveforms shown in the diagrams are indicative. Measure them in the Service Default Mode (see chapter 5) with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz for PAL, or 61.25 MHz for NTSC (channel 3).
- Where necessary, measure the waveforms and voltages with (╥) and without (⊠) aerial signal. Measure the voltages in the power supply section both in normal operation (⏽) and in stand-by (⏻). These values are indicated by means of the appropriate symbols.
- The semiconductors indicated in the circuit diagram and in the parts lists, are interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.
- Manufactured under license from Dolby Laboratories. “Dolby”, “Pro Logic” and the “double-D symbol”, are trademarks of Dolby Laboratories.

2.3.2 Schematic Notes

- All resistor values are in ohms, and the value multiplier is often used to indicate the decimal point location (e.g. 2K2 indicates 2.2 kohm).
- Resistor values with no multiplier may be indicated with either an "E" or an "R" (e.g. 220E or 220R indicates 220 ohm).
- All capacitor values are given in micro-farads (μ= x10^{-6}), nano-farads (n= x10^{-9}), or pico-farads (p= x10^{-12}).
- Capacitor values may also use the value multiplier as the decimal point indication (e.g. 2p2 indicates 2.2 pF).
- An "asterisk" (*) indicates component usage varies. Refer to the diversity tables for the correct values.
- The correct component values are listed in the Spare Parts List. Therefore, always check this list when there is any doubt.

2.3.3 Rework on BGA (Ball Grid Array) ICs

General

Although (LF)BGA assembly yields are very high, there may still be a requirement for component rework. By rework, we mean the process of removing the component from the PWB and replacing it with a new component. If an (LF)BGA is removed from a PWB, the solder balls of the component are deformed drastically so the removed (LF)BGA has to be discarded.

Device Removal

As is the case with any component that, is being removed, it is essential when removing an (LF)BGA, that the board, tracks, solder lands, or surrounding components are not damaged. To remove an (LF)BGA, the board must be uniformly heated to a temperature close to the reflow soldering temperature. A uniform temperature reduces the risk of warping the PWB.
To do this, we recommend that the board is heated until it is certain that all the joints are molten. Then carefully pull the component off the board with a vacuum nozzle. For the appropriate temperature profiles, see the IC data sheet.

Area Preparation

When the component has been removed, the vacant IC area must be cleaned before replacing the (LF)BGA.
Removing an IC often leaves varying amounts of solder on the mounting lands. This excessive solder can be removed with either a solder sucker or solder wick. The remaining flux can be removed with a brush and cleaning agent.
After the board is properly cleaned and inspected, apply flux on the solder lands and on the connection balls of the (LF)BGA.
Note: Do not apply solder paste, as this has been shown to result in problems during re-soldering.

Device Replacement

The last step in the repair process is to solder the new component on the board. Ideally, the (LF)BGA should be aligned under a microscope or magnifying glass. If this is not possible, try to align the (LF)BGA with any board markers.
So as not to damage neighbouring components, it may be necessary to reduce some temperatures and times.

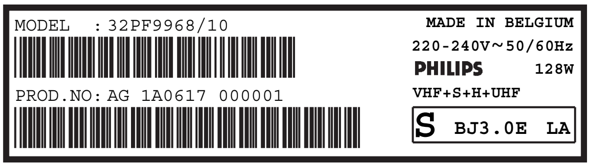
More Information

For more information on how to handle BGA devices, visit this URL: *www.atyourservice.ce.philips.com* (needs subscription, not available for all regions). After login, select “Magazine”, then go to “Repair downloads”. Here you will find Information on how to deal with BGA-ICs.

2.3.4 Lead-free Solder

Philips CE is producing lead-free sets (PBF) from 1.1.2005 onwards.

Identification: The bottom line of a type plate gives a 14-digit serial number. Digits 5 and 6 refer to the production year, digits 7 and 8 refer to production week (in example below it is 2006 week 17).



MODEL : 32PF9968/10
PROD.NO: AG 1A0617 000001
MADE IN BELGIUM
220-240V~50/60Hz
PHILIPS 128W
VHF+S+H+UHF
S BJ3.0E LA

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Figure 2-1 Serial number example

Regardless of the special lead-free logo (which is not always indicated), one must treat all sets from this date onwards according to the rules as described below.

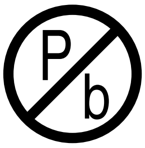

Figure 2-2 Lead-free logo

Due to lead-free technology some rules have to be respected by the workshop during a repair:

- Use only lead-free soldering tin Philips SAC305 with order code 0622 149 00106. If lead-free solder paste is required, please contact the manufacturer of your soldering equipment. In general, use of solder paste within workshops should be avoided because paste is not easy to store and to handle.
- Use only adequate solder tools applicable for lead-free soldering tin. The solder tool must be able:
  - To reach a solder-tip temperature of at least 400°C.
  - To stabilise the adjusted temperature at the solder-tip.
  - To exchange solder-tips for different applications.
- Adjust your solder tool so that a temperature of around 360°C - 380°C is reached and stabilised at the solder joint. Heating time of the solder-joint should not exceed ~ 4 sec. Avoid temperatures above 400°C, otherwise wear-out of tips will increase drastically and flux-fluid will be destroyed. To avoid wear-out of tips, switch “off” unused equipment or reduce heat.
- Mix of lead-free soldering tin/parts with leaded soldering tin/parts is possible but PHILIPS recommends strongly **to avoid** mixed regimes. If this cannot be avoided, carefully clear the solder-joint from old tin and re-solder with new tin.
- Use only original spare-parts listed in the Service-Manuals. Not listed standard material (commodities) has to be purchased at external companies.
- Special information for lead-free BGA ICs: these ICs will be delivered in so-called "dry-packaging" to protect the IC against moisture. This packaging may only be opened shortly before it is used (soldered). Otherwise the body of the IC gets "wet" inside and during the heating time the structure of the IC will be destroyed due to high (steam-) pressure inside the body. If the packaging was opened before usage, the IC has to be heated up for some hours (around 90°C) for drying (think of ESD-protection!).
  Do not re-use BGAs at all!
- For sets produced before 1.1.2005, containing leaded soldering tin and components, all needed spare parts will be available till the end of the service period. For the repair of such sets nothing changes.

In case of doubt whether the board is lead-free or not (or with mixed technologies), you can use the following method:

- Always use the highest temperature to solder, when using SAC305 (see also instructions below).
- De-solder thoroughly (clean solder joints to avoid mix of two alloys).

Caution: For BGA-ICs, you **must** use the correct temperature-profile, which is coupled to the 12NC. For an overview of these profiles, visit the website *www.atyourservice.ce.philips.com* (needs subscription, but is not available for all regions)
You will find this and more technical information within the "Magazine", chapter "Repair downloads".
For additional questions please contact your local repair help desk.

2.3.5 Alternative BOM identification

In September 2003, Philips CE introduced a change in the way the serial number (or production number, see Figure 2-1) is composed. From this date on, the **third digit** in the serial number (example: AG**2**B0335000001) indicates the number of the alternative BOM (Bill of Materials used for producing the specific model of TV set). It is possible that the same TV model on the market is produced with e.g. two different types of displays, coming from two different O.E.M.s.
By looking at the third digit of the serial number, the service technician can see if there is more than one type of B.O.M. used in the production of the TV set he is working with. He can then consult the At Your Service Web site, where he can type in the Commercial Type Version Number of the TV set (e.g. 28PW9515/12), after which a screen will appear that gives information about the number of alternative B.O.M.s used.
If the third digit of the serial number contains the number 1 (example: AG**1**B033500001), then there is only one B.O.M. version of the TV set on the market. If the third digit is a 2 (example: AG**2**B0335000001), then there are two different B.O.M.s. ***Information about this is important for ordering the correct spare parts!***
For the third digit, the numbers 1...9 and the characters A...Z can be used, so in total: 9 plus 26 = 35 different B.O.M.s can be indicated by the third digit of the serial number.

2.3.6 Practical Service Precautions

- **It makes sense to avoid exposure to electrical shock.** While some sources are expected to have a possible dangerous impact, others of quite high potential are of limited current and are sometimes held in less regard.
- **Always respect voltages**. While some may not be dangerous in themselves, they can cause unexpected reactions that are best avoided. Before reaching into a powered TV set, it is best to test the high voltage insulation. It is easy to do, and is a good service precaution.

3. Directions for Use

You can download this information from the following websites:
http://www.philips.com/support
http://www.p4c.philips.com

4. Mechanical Instructions

Index of this chapter:

4.1 Cable Dressing
4.2 Service Positions
4.3 Assy/Panel Removal “ME6” styling
4.5 Assy/Panel Removal “Top A” styling
4.4 Assy/Panel Removal “Top B” styling
4.6 Assy/Panel Removal “Step 2k6” styling
4.7 Set Re-assembly

Notes:

- Figures below can deviate slightly from the actual situation, due to the different set executions.
- Follow the disassemble instructions in described order.

This chassis comes with four different stylings:

- “ME6”, for type numbers 32PF9531/10 and 32PF9631D/10
- “Top B”, for type numbers 32PF9731D/10, 37PF9731/69, 37PF9731D/10 and 42PF9731D/10
- “Top A”, for type numbers 42PF9831/69 and 42PF9831D/10.
- “Step 2k6”, for type number 42PF9641D/10.

The mechanical instructions for the different stylings are described separately in this chapter.

4.1 Cable Dressing

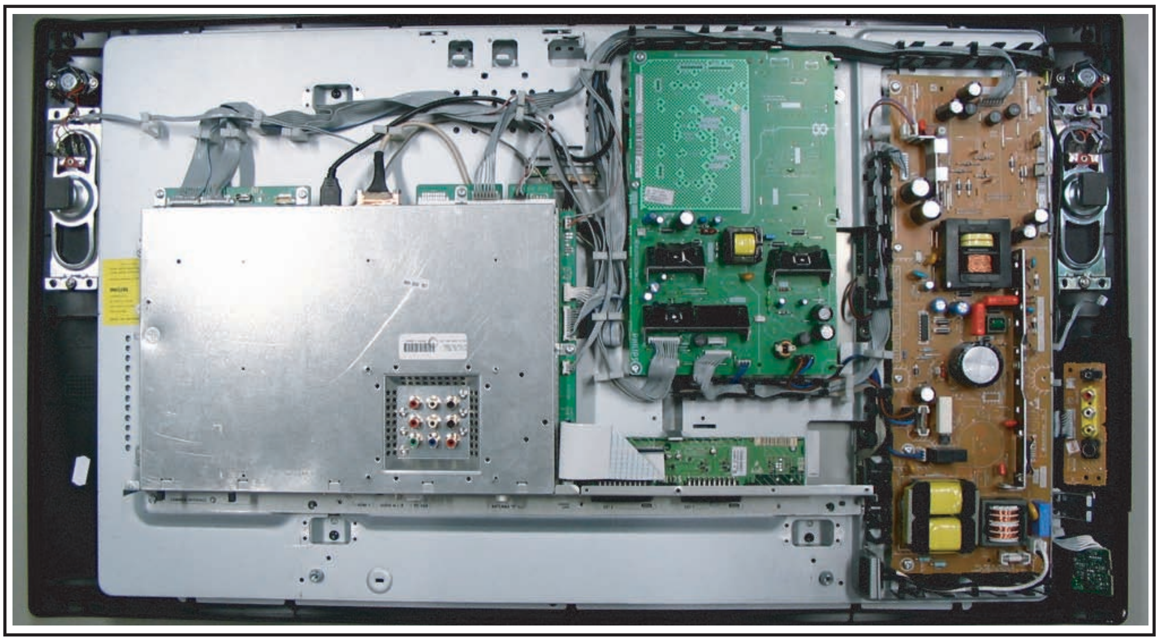

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Figure 4-1 Cable dressing ME6 styling (32PF9531/10 and 32PF9631D/10)

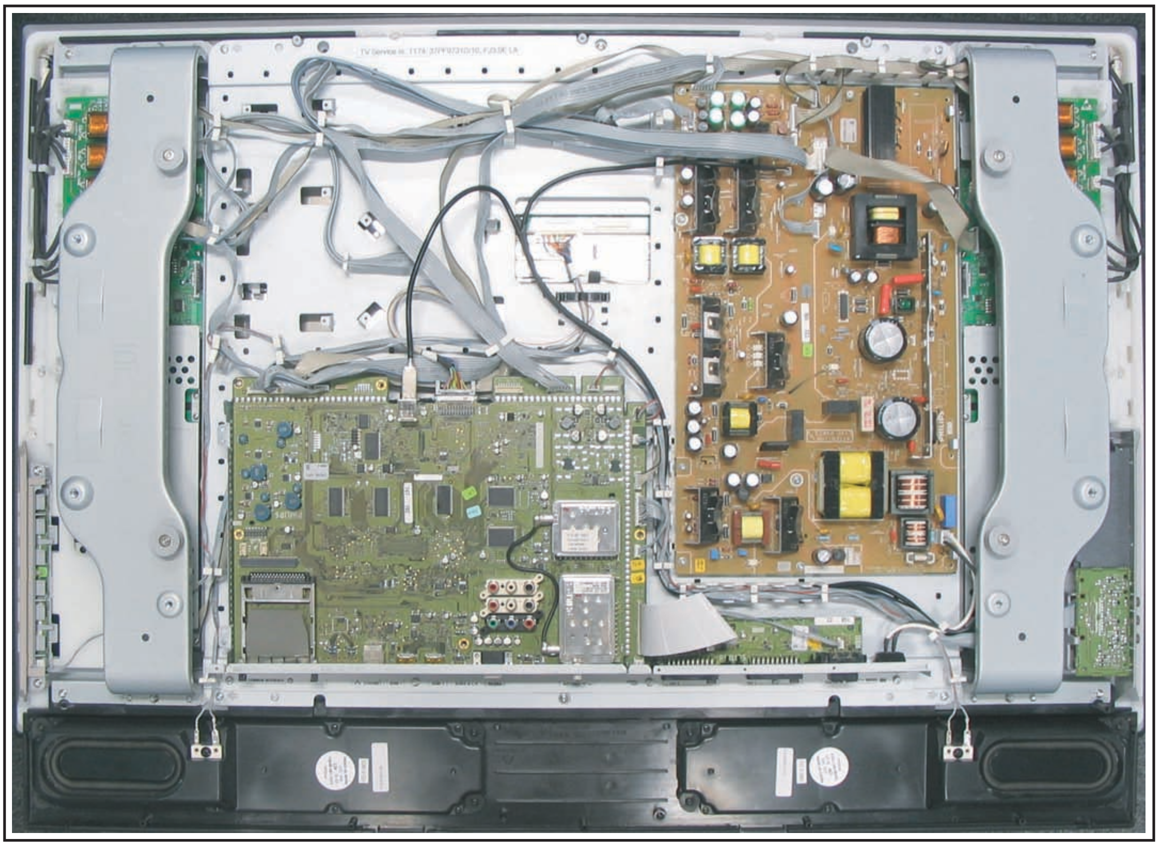

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Figure 4-2 Cable dressing Top B styling (32PF9731D/10, 37PF9731/69, 37PF9731D/10 and 42PF9731D/10)

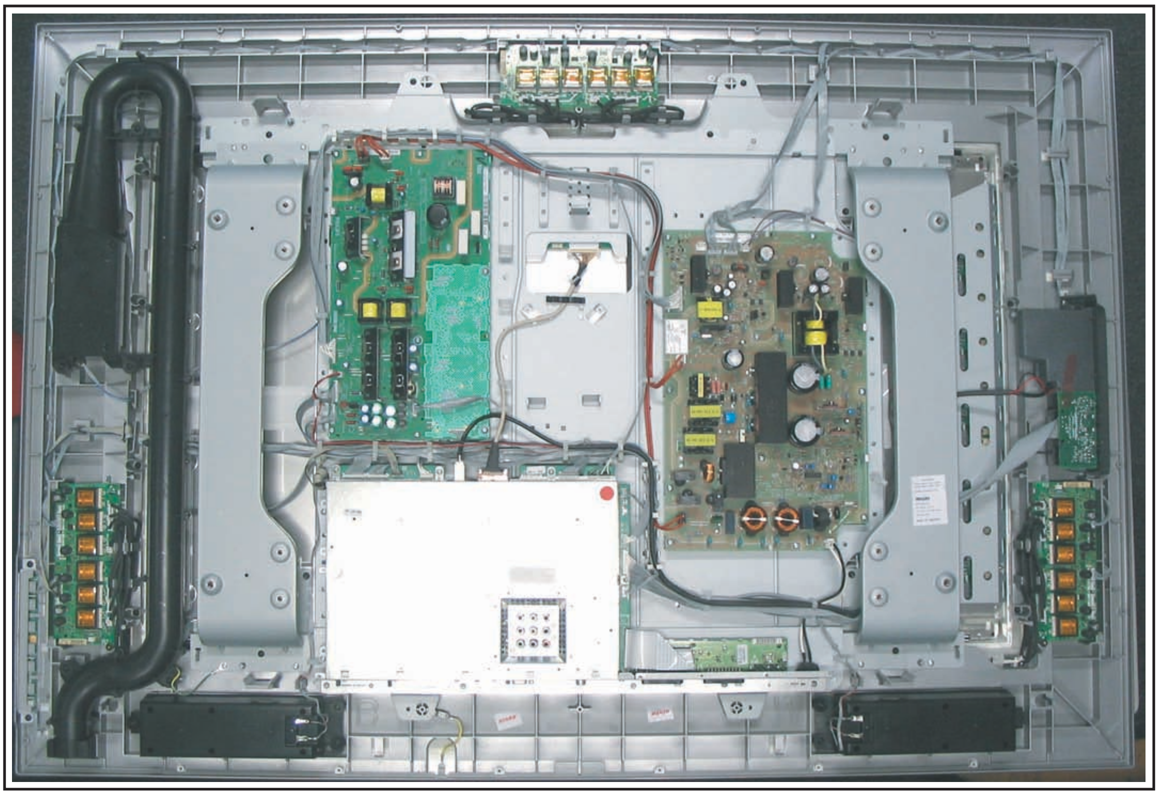

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Figure 4-3 Cable dressing Top A styling (42PF9831/69 and 42PF9831D/10)

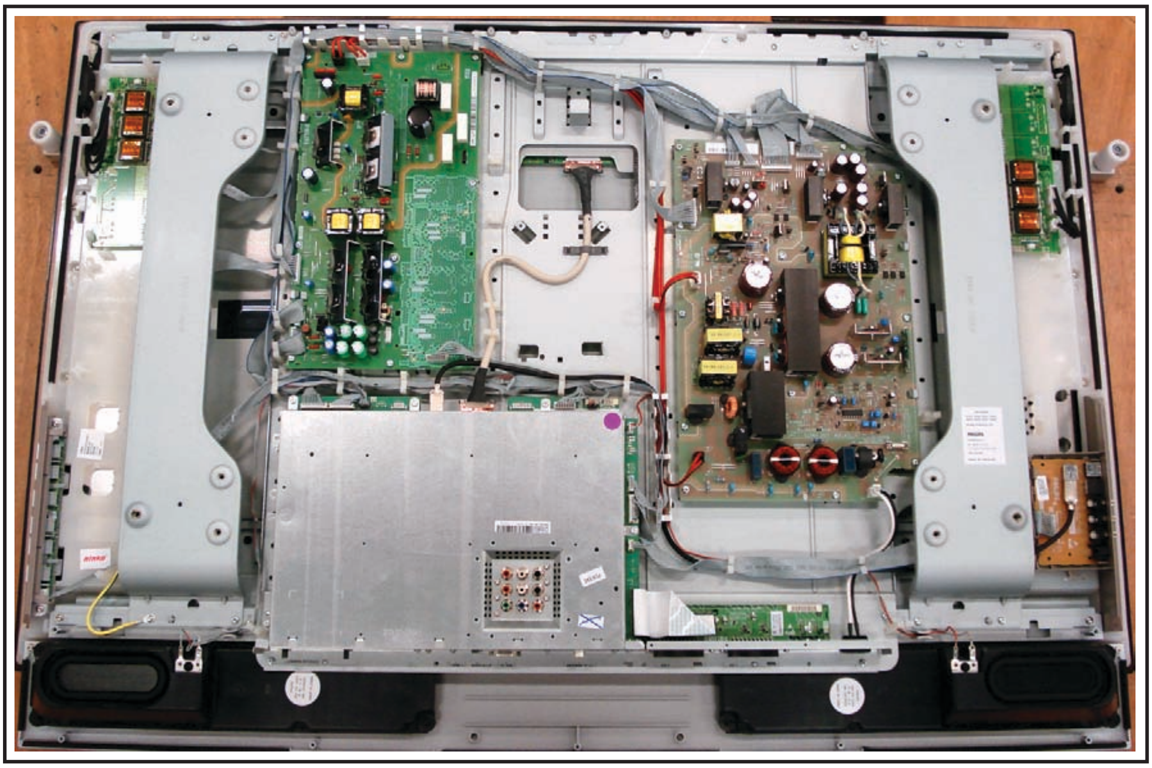

Figure 4-4 Cable dressing Step 2k6 styling (42PF9641D/10)

4.2 Service Positions

For easy servicing of this set, there are a few possibilities created:

- The buffers from the packaging.
- Foam bars (created for Service).
- Aluminium service stands (created for Service).

4.2.1 Foam Bars

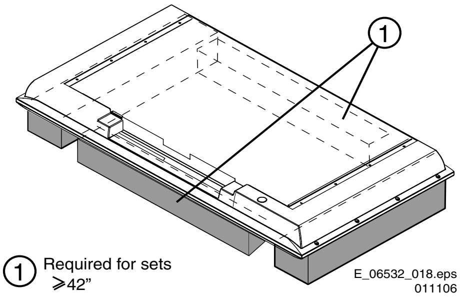

Figure 4-5 Foam bars

The foam bars (order code 3122 785 90580 for two pieces) can be used for all types and sizes of Flat TVs. Sets with a display of 42" and larger, require **four** foam bars [1].
Caution: Ensure that the foam bars are always supporting the cabinet and **never** only the display.
By laying the TV face down on the (ESD protective) foam bars, a stable situation is created to perform measurements and alignments. By placing a mirror under the TV, you can monitor the screen.

4.2.2 Aluminium Stands

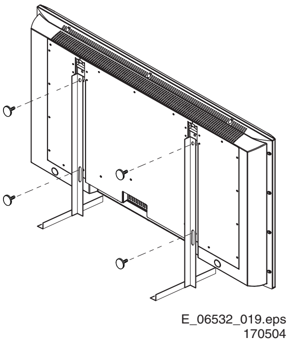

Figure 4-6 Aluminium stands (drawing of MkI)

The new MkII aluminium stands (not on drawing) with order code 3122 785 90690, can also be used to do measurements, alignments, and duration tests. The stands can be (dis)mounted quickly and easily by means of sliding them in/out of the "mushrooms". The new stands are backwards compatible with the earlier models.
Important: For (older) FTV sets without these "mushrooms", it is obligatory to use the provided screws, otherwise it is possible to damage parts inside the set !

4.3 Assy/Panel Removal “ME6” styling

4.3.1 Rear Cover

Disconnect the Mains/AC Power cord before you remove the rear cover!

1. Place the TV set upside down on a table top, using the foam bars (see part “Foam Bars”).
   Caution: do **not** put pressure on the display, but let the monitor lean on the Front cover.
2. Remove the stand by removing the tapping screws [1], that hold the stand.
3. Remove T10 tapping and parker screws [2] from the top, centre, bottom, left and right side of the Rear Cover and underneath the main I/O panel.
4. Lift the Rear Cover from the TV. Make sure that wires and flat foils are not damaged while lifting the rear cover.

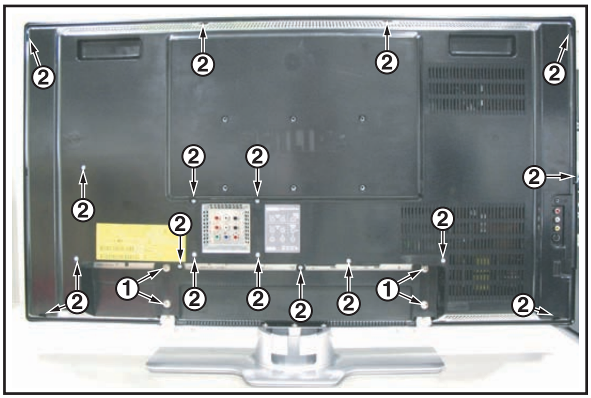

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Figure 4-7 Rear cover removal

4.3.2 VESA wall plate

The VESA wall mount plate can be removed by removing the T10 tapping screws [1] that hold the plate. See figure “VESA wall mount plate removal”.

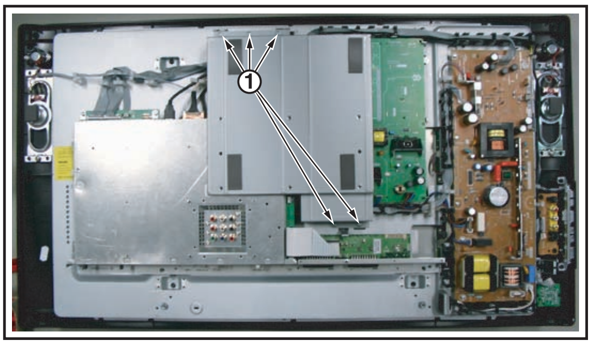

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Figure 4-8 VESA wall mount plate removal

4.3.3 Speaker

After removing the rear cover, you gain access to the speakers.
Caution: never disconnect the speakers with a playing set, because otherwise the class-D audio amplifiers could be damaged.

4.3.4 Control Panel

The Control Panel can be taken out by removing the two T10 screws [1] that hold the plastic frame. After the panel has been taken out, the connector can be released. See figure “Control Panel, LED Panel and Side I/O Panel removal”. When defective, replace the whole unit.

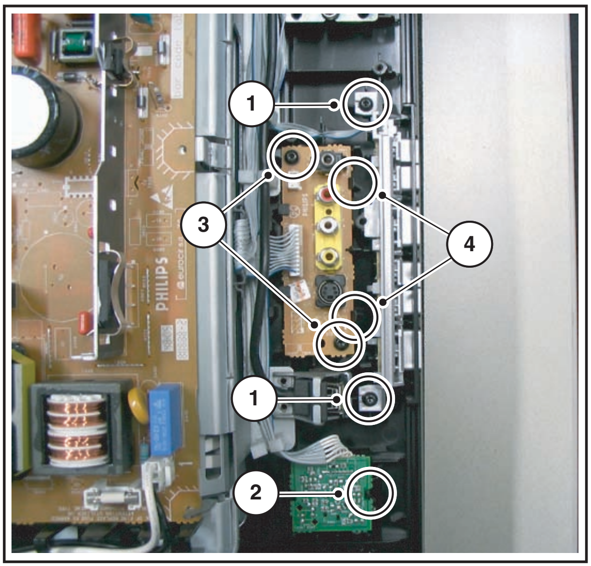

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Figure 4-9 Control panel, LED panel and side I/O panel removal

The assy is packed into a plastic frame. To take the assy out, lift the four clamps [1] of the frame and take the assy out. See Figure “Control panel assy removal”.

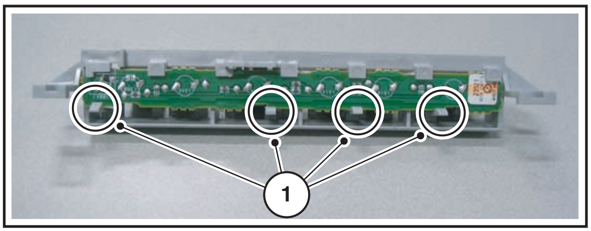

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Figure 4-10 Control panel assy removal

When defective, replace the whole unit.

4.3.5 LED Panel

The LED Panel can be removed by releasing clamp [2] that holds the assy. It hinges on the left side. See figure “Control Panel, LED Panel and Side I/O Panel removal”.
When defective, replace the whole unit.

4.3.6 Side I/O Panel

The Side I/O Panel can be removed together with its plastic frame. See figure “Control Panel, LED Panel and Side I/O Panel removal”.

1. Remove the T10 parker screws [3].
2. Push back the clamps [4] on the right side that hold the assy.
3. Take out the assy from the plastic frame, it hinges on the left side.

When defective, replace the whole unit.

4.3.7 Standby/Audio Panel

1. Disconnect all cables from the Standby/Audio Panel.
2. Remove T10 tapping screws [1] from the Standby/Audio Panel. See figure “Standby/Audio Panel removal”.
3. Take out the Standby/Audio Panel (it hinges at the right side).

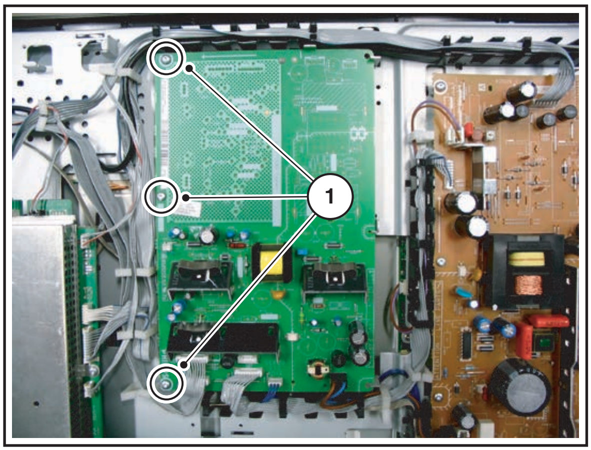

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Figure 4-11 Standby/Audio panel removal

4.3.8 External I/O SCART Panel

The External I/O SCART Panel can be taken out by removing the flat cable and removing the parker screws [1] on the SSB bottom shield that hold the assy. See figure “External I/O SCART Panel removal”.

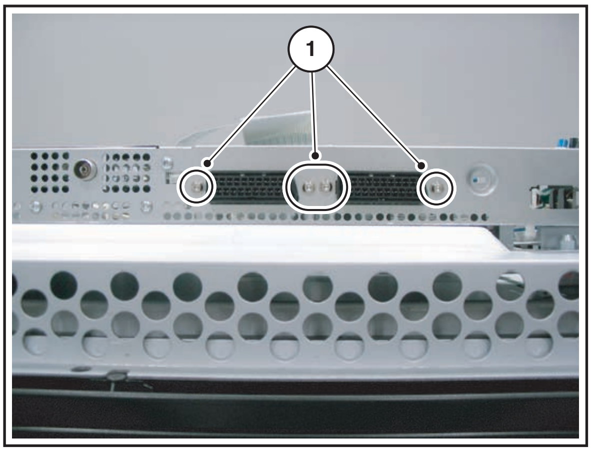

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Figure 4-12 External I/O SCART panel

4.3.9 Small Signal Board (SSB)

Caution: it is absolutely mandatory to remount all different screws at their original position during re-assembly. Failure to do so may result in damaging the SSB.

Removal from the set

The SSB can, together with the External I/O SCART Panel, be taken out of the set by removing the T10 tapping screw [1] on the left side of the panel. See “SSB top shielding”. The frame that holds the SSB and the External I/O SCART Panel hinges at the right side. Disconnect all cables from the SSB before lifting the frame from the set. This includes the USB plug and the fragile LVDS cable.

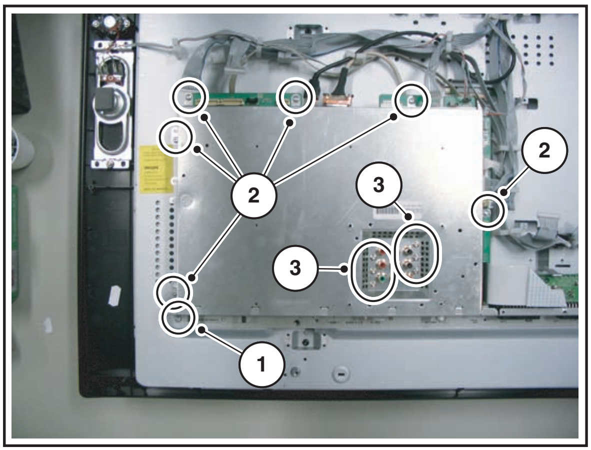

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Figure 4-13 SSB top shielding

Removing the shielding

1. Remove the T10 tapping screws [2] on the outer rim of the SSB top shielding.
2. Remove the T10 parker screws [3] around the External I/O SCART Panel.
3. Remove the T10 tapping screws [1] on the SSB bottom shielding. See figure “SSB bottom shielding” for details.

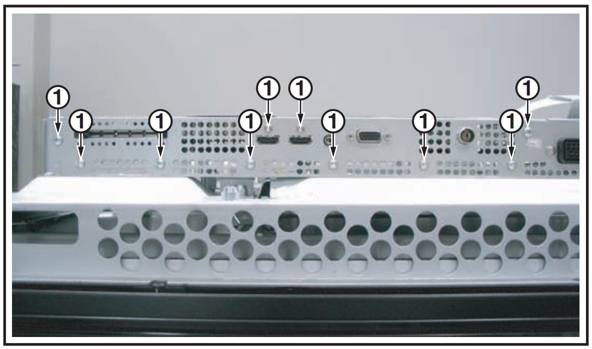

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Figure 4-14 SSB bottom shielding

Removing the SSB and External I/O Panel

See figure “SSB and External I/O SCART Panel removal”.

- The SSB is mounted with 2 screws on the bottom shielding.
- The External I/O Panel is mounted with 4 screws on the bottom shielding.

4.3.10 Supply Panel

See figure “Supply Panel” for details.

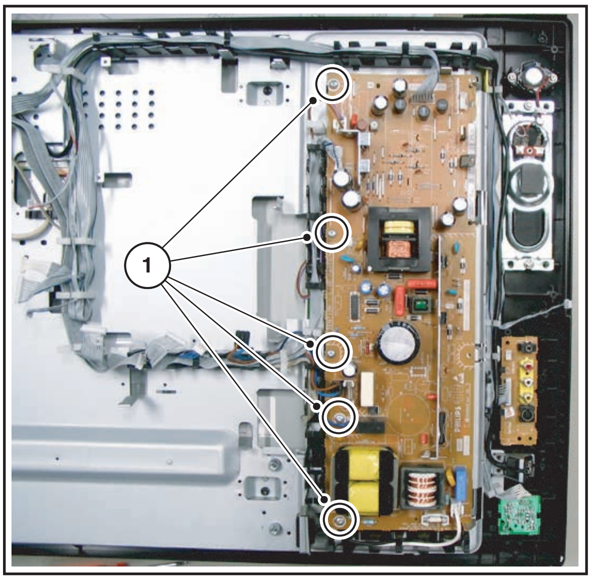

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Figure 4-15 Supply panel

1. Remove the T10 tapping screws.
2. Unplug the cables.
3. Take the panel out (it hinges on the right side).

4.3.11 LCD Display Panel

For exchanging the LCD display, see figure “LCD Display Panel removal”.

1. Remove T10 parker screws [1], indicated with an arrow on the rim.
2. Remove T15 tapping screws [2].
3. Unplug the speaker cables.
4. Unplug the fragile LVDS connector.
5. Unplug the two connectors [4] on the LCD inverter panel.

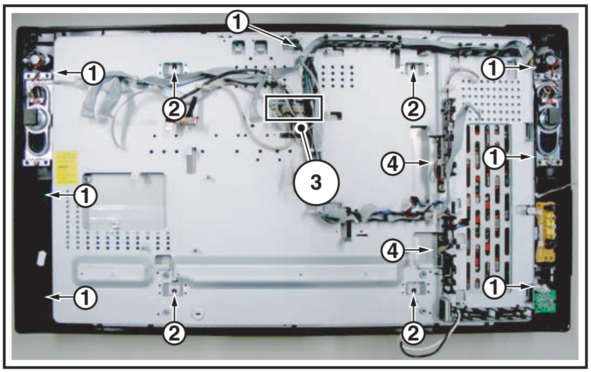

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Figure 4-16 LCD display panel removal

Now the subframe can be lifted, together with the Side I/O-, Side USB- and LED Panel. See figure “Subframe lift”. After that, the LCD Panel can be lifted from the set.

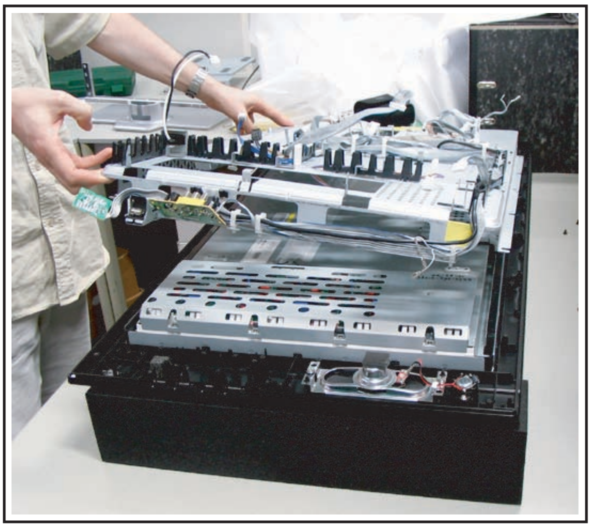

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Figure 4-17 Subframe lift

4.4 Assy/Panel Removal “Top B” styling

4.4.1 Rear Cover

Disconnect the Mains/AC Power cord before you remove the rear cover!

1. Place the TV set upside down on a table top, using the foam bars (see part “Foam Bars”).
   Caution: do **not** put pressure on the display, but let the monitor lean on the front cover.
2. Remove the stand.
3. Remove mushrooms [1].
4. Remove screws [2].
5. Lift the Rear Cover from the TV. Make sure that wires and flat foils are not damaged while lifting the rear cover.

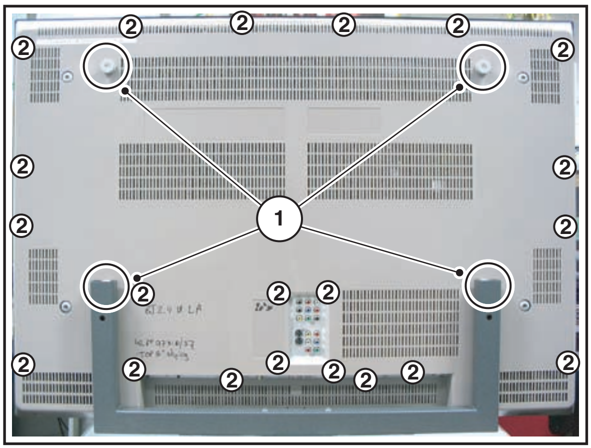

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Figure 4-18 Rear cover removal

4.4.2 Speakers

After removing the rear cover, you gain access to the speakers. **Caution:** never disconnect the speakers with a playing set, because otherwise the class-D audio amplifiers could be damaged.

4.4.3 Keyboard Control Panel

1. Remove the rear cover, as described previously.
2. Remove screws [1].
3. Release clips [2] and slide the PWB out of the plastic casing.
4. Unplug connector [3].

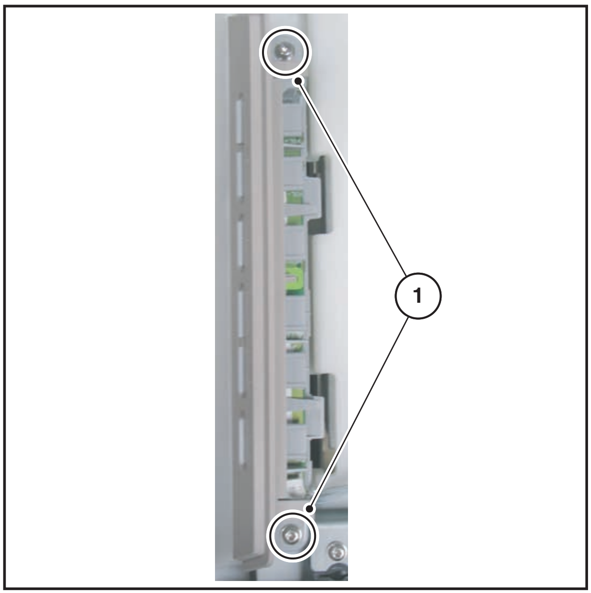

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Figure 4-19 Keyboard control panel removal 1/2

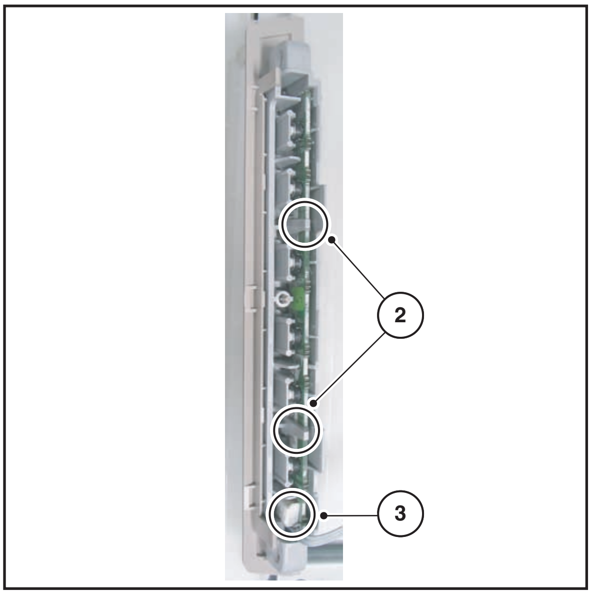

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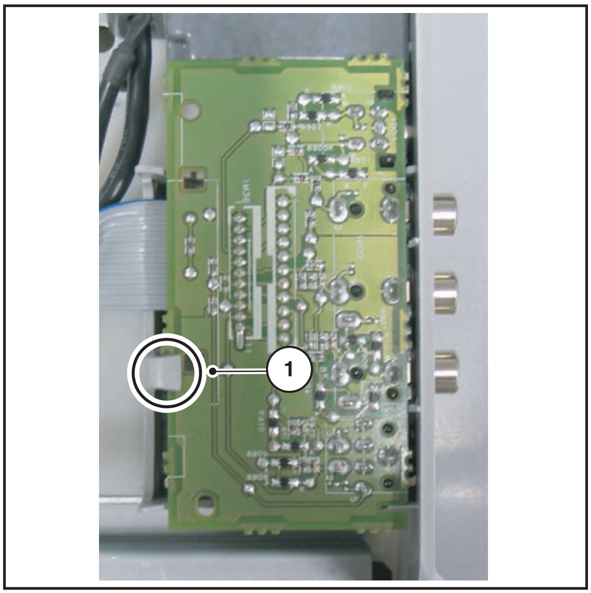
Figure 4-20 Keyboard control panel removal 2/2

When defective, replace the whole unit.

4.4.4 Side I/O Panel

1. Remove the rear cover, as described previously.
2. Release clamp [1] and slide the PWB out of its casing.
3. Unplug connector [2] from the panel.



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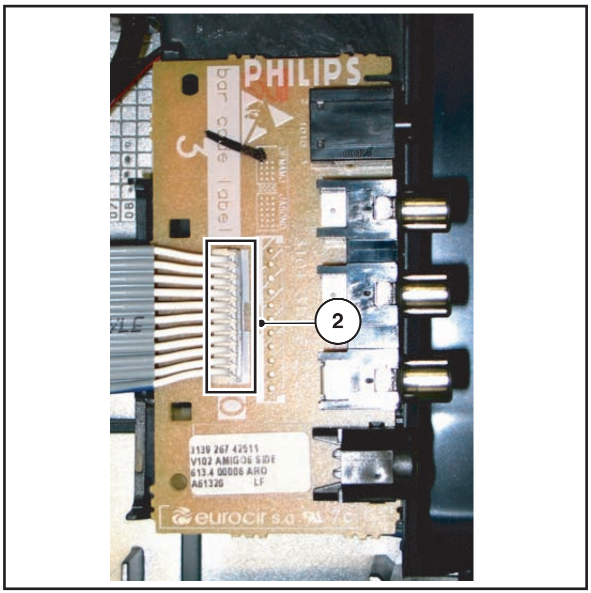
110506

Figure 4-21 Side I/O panel 1/2


2
PHILIPS
3139 267 42511
V102 AMIGO6 SIDE
613.4 00006 ARO
A61320 LF
eurocir s.a

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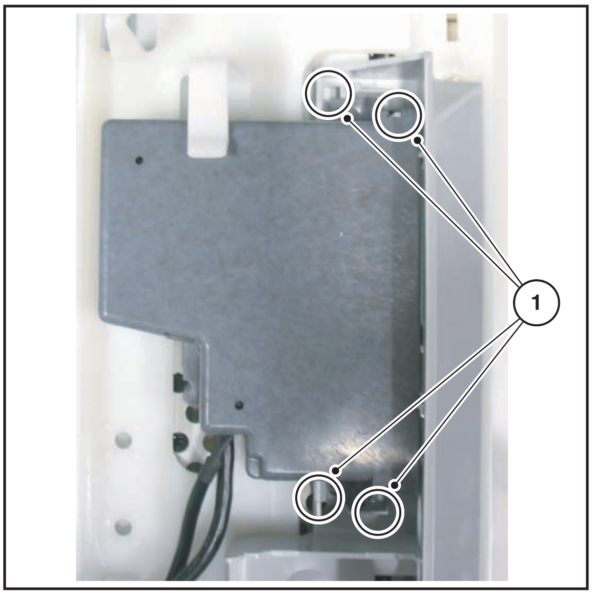
110506

Figure 4-22 Side I/O panel 2/2

4.4.5 Memory Card reader / USB connector

1. Remove the rear cover, as described previously.
2. Release clamps [1] and slide the unit out of its plastic frame.
3. Unplug the USB connector from the SSB panel, and the power cable from the PSU.



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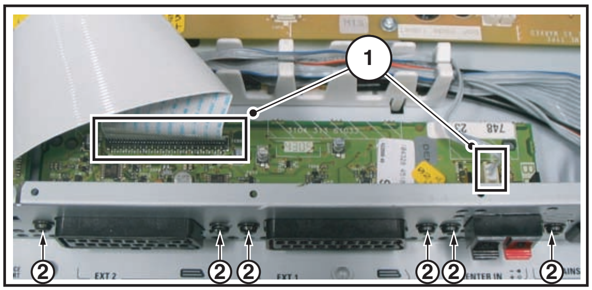
110506

Figure 4-23 Memory card reader / USB connector

4.4.6 External I/O SCART Panel

1. Remove the rear cover, as described previously.
2. Unplug connectors [1] from the panel.
3. Remove screws [2].


1
2
EXT 2
2
2
EXT 1
2
2
CENTER IN
2

G_15990_129.eps
110506

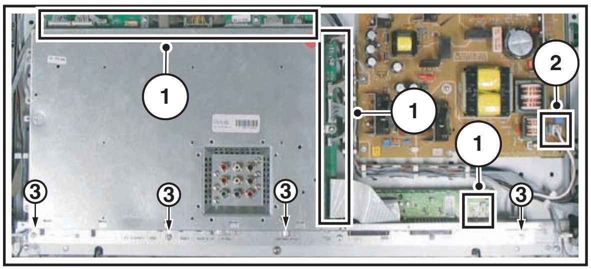
Figure 4-24 External I/O SCART panel

4.4.7 Small Signal Board (SSB)

Caution: it is absolutely mandatory to remount all different screws at their original position during re-assembly. Failure to do so may result in damaging the SSB.

Removal from the set

1. Remove the rear cover, as described previously.
2. Unplug all connectors [1] from the SSB panel.
3. Unplug connector [2] from the PSU.
4. Remove screws [3].
5. Take the complete SSB module out of the set and place it on a flat workbench.



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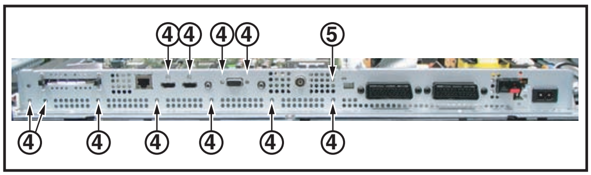
110506

Figure 4-25 SSB panel 1/4

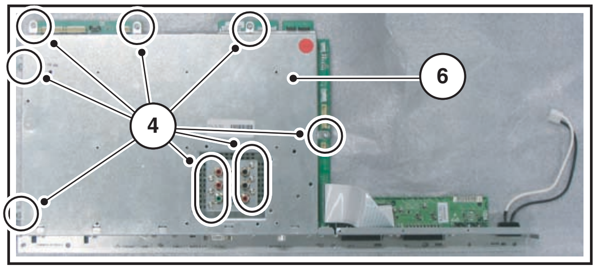
Removing the shielding

1. Remove screws [4] .
2. Remove the connector plate [5] and the top shielding [6].
3. Remove screws [7] and remove the SSB panel from the bottom shielding.



G_15990_131.eps
110506

Figure 4-26 SSB panel 2/4



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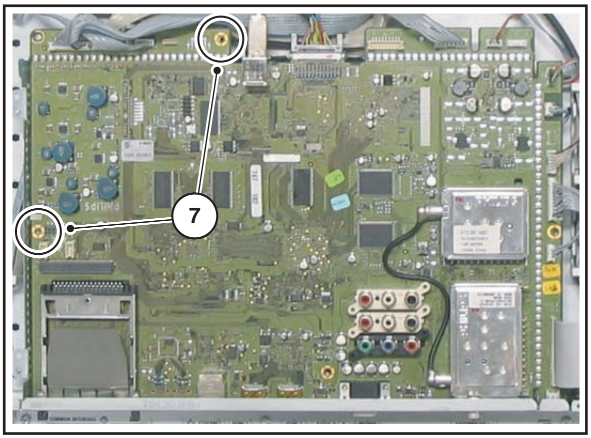
110506

Figure 4-27 SSB panel 3/4

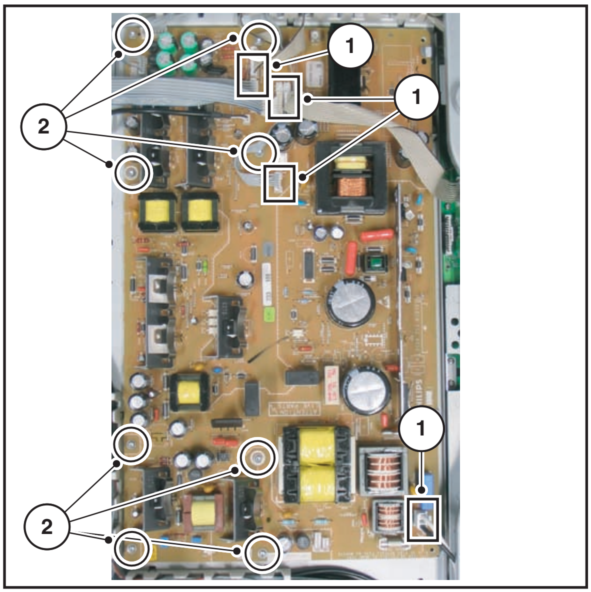


G_15990_133.eps
110506

Figure 4-28 SSB panel 4/4

4.4.8 Power Supply

1. Remove the rear cover, as described previously.
2. Unplug connectors [1] from the panel.
3. Remove screws [2].



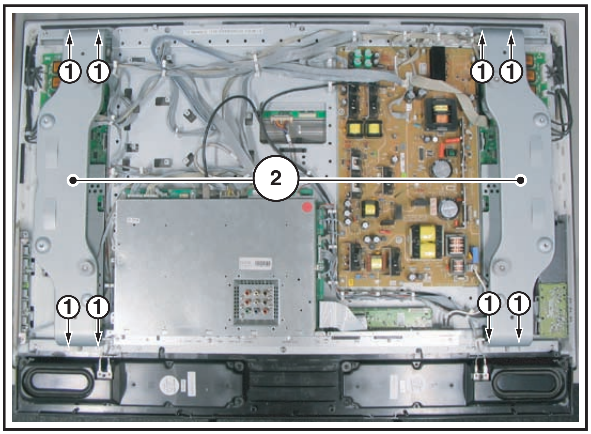
G_15990_134.eps
110506

Figure 4-29 Platform supply

4.4.9 LCD Display Panel

For exchanging the LCD display, see figures "LCD Display Panel removal".

1. Remove the rear cover, as described previously.
2. Remove screws [1]
3. Remove brackets [2].
4. Unplug LVDS connector [3] from the panel.
5. Unplug connector [4] of the IR/LED panel from the SSB.
6. Unplug connectors [5] from the loudspeakers.
7. Unplug connectors [6] from the ambilight lamp inverter PWB.
8. Remove screws [7] and put the keyboard control unit on the subframe.
9. Release the Mem. Card Reader/Side I/O [8] and put it on the subframe.
10. Unplug connector [9] from the X-Main PWB.
11. Remove screws [10].
12. Remove the subframe [11].
13. Remove screws [12].
14. Remove brackets [13] and plastic ambilight lamp frame [14].
15. Remove the LCD panel [15].



G_15990_135.eps
110506

Figure 4-30 LCD Display panel removal 1/4

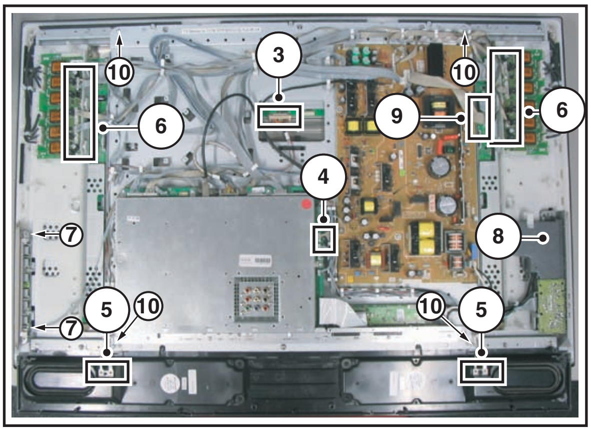


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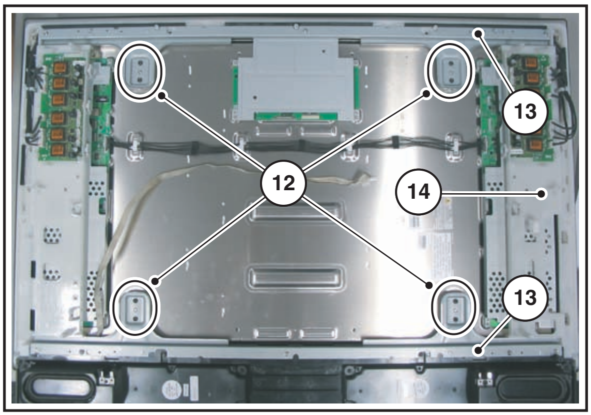
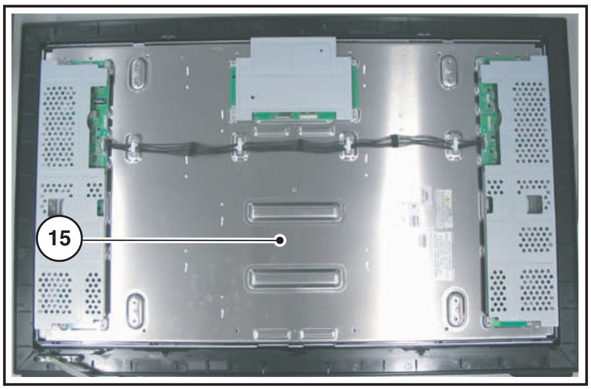
Figure 4-31 LCD display panel removal 2/4



G_15990_137.eps
120506

Figure 4-32 LCD display panel removal 3/4

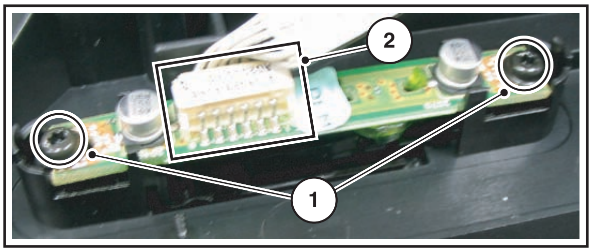


G_15990_138.eps
110506

Figure 4-33 LCD display panel removal 4/4

4.4.10 LED/IR Sensor Removal

1. Carry out the disassembly of the LCD panel, as described previously, except for the last point.
2. Remove screws [1] .
3. Unplug connector [2].

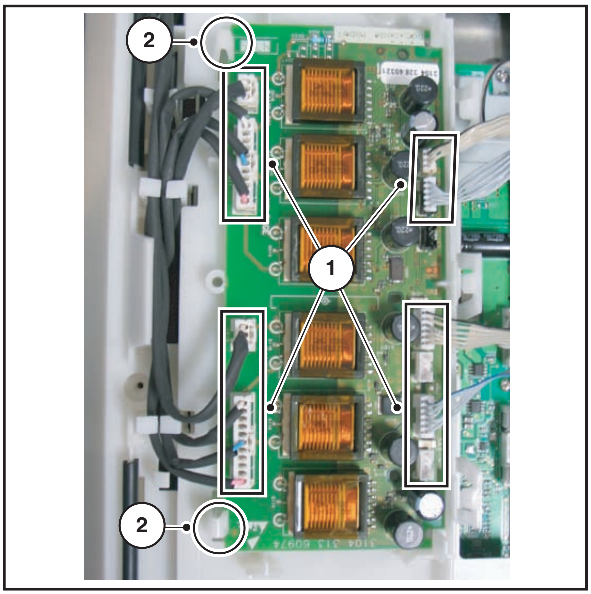


G_15990_139.eps
110506

Figure 4-34 LED/IR sensor removal

4.4.11 Ambilight Lamp Inverter Boards

1. Remove the rear cover, as described previously.
2. Remove the metal bracket, that is mounted over the Inverter Board you want to replace, as described previously.
3. Unplug connectors [1] .
4. Release clamps [2].

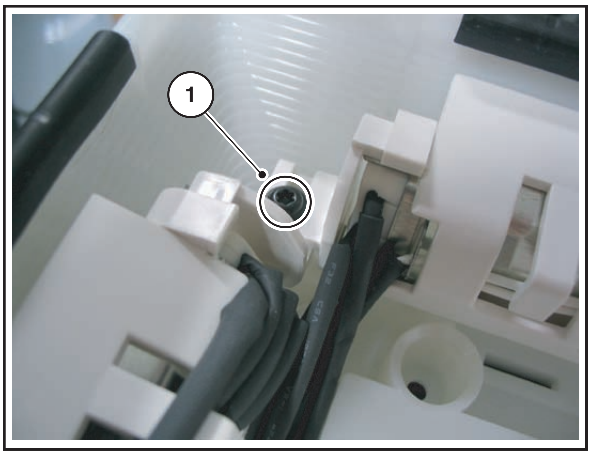


G_15990_140.eps
110506

Figure 4-35 Ambilight Lamp inverter board

4.4.12 Ambilight Lamp Module

1. Carry out the disassembly “LCD Display Panel”, except for the last point.
2. Put the ambilight lamp frame on a flat workbench.
3. Remove screws [1].



G_15990_141.eps
110506

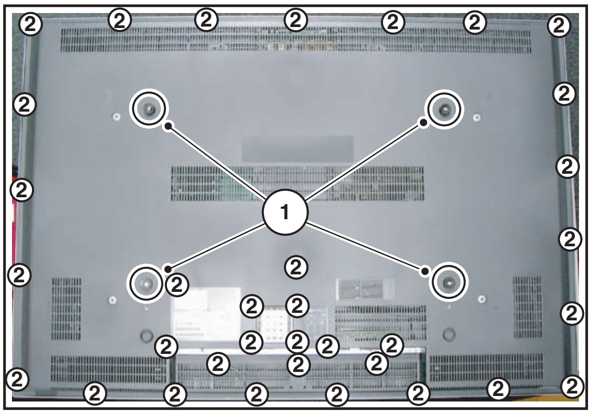
Figure 4-36 Ambilight Lamp module

4.5 Assy/Panel Removal “Top A” styling

4.5.1 Rear Cover

Disconnect the Mains/AC Power cord before you remove the rear cover!

1. Place the TV set upside down on a table top, using the foam bars (see part “Foam Bars”).
   Caution: do **not** put pressure on the display, but let the monitor lean on the front cover.
2. Remove the stand.
3. Remove mushrooms [1].
4. Remove screws [2].
5. Lift the Rear Cover from the TV. Make sure that wires and flat foils are not damaged while lifting the rear cover.



G_15990_146.eps
161006

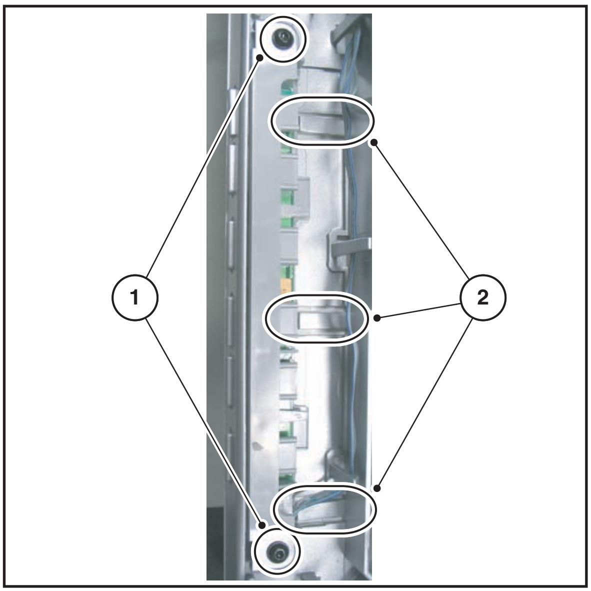
Figure 4-37 Rear cover removal

4.5.2 Speakers

After removing the rear cover, you gain access to the speakers. **Caution:** never disconnect the speakers with a playing set, because otherwise the class-D audio amplifiers could be damaged.

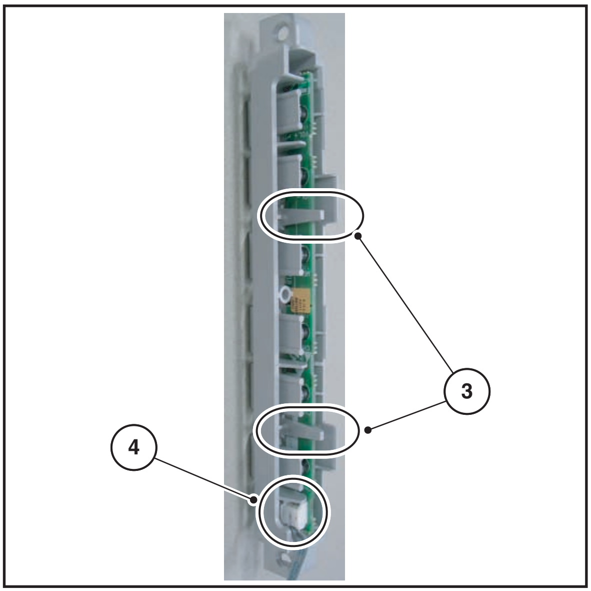
4.5.3 Keyboard Control Panel

1. Remove the rear cover, as described previously.
2. Remove screws [1].
3. Release clips [2] and slide the unit away from the side of the set.
4. Release clips [3] and slide the PWB out of the plastic casing.
5. Unplug connector [4].



G_15990_147.eps
120506

Figure 4-38 Keyboard control panel removal 1/2



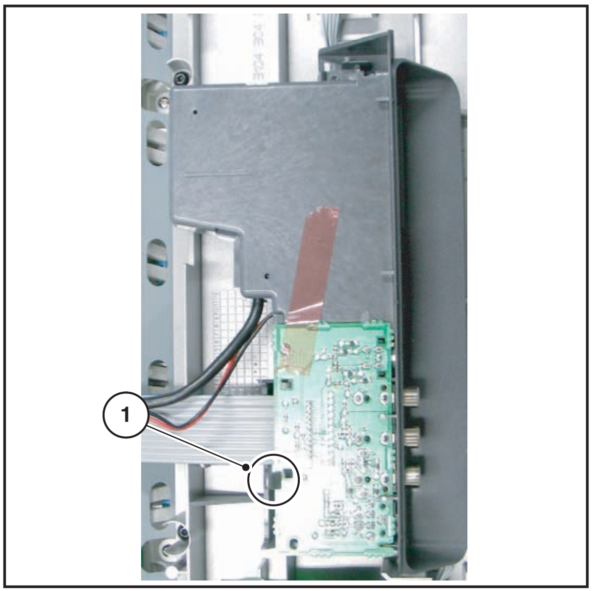
G_15990_148.eps
120506

Figure 4-39 Keyboard control panel removal 2/2

When defective, replace the whole unit.

4.5.4 Side I/O Panel

1. Remove the rear cover, as described previously.
2. Release clamp [1] and slide the PWB out of its casing.
3. Unplug connector [2] from the panel.



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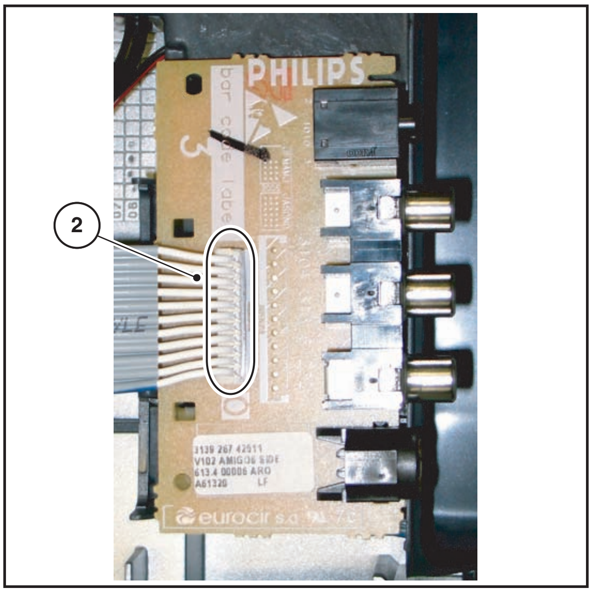
120506

Figure 4-40 Side I/O panel 1/2

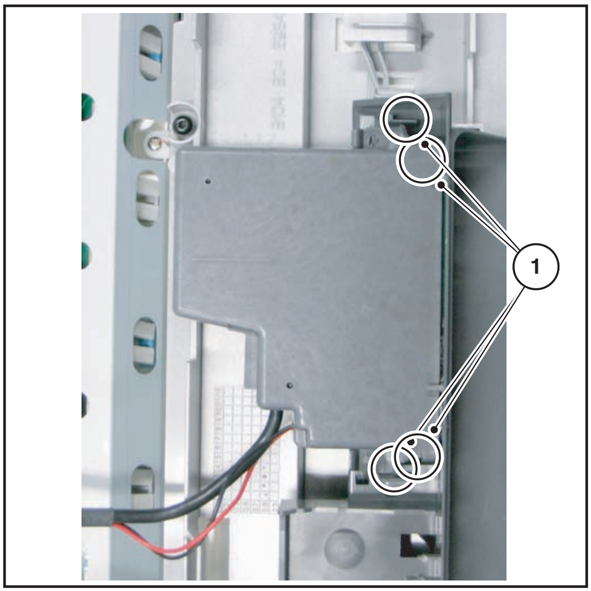


G_15990_150.eps
120506

Figure 4-41 Side I/O panel 2/2

4.5.5 Memory Card reader / USB connector

1. Remove the rear cover, as described previously.
2. Release clamps [1] and slide the unit out of its plastic frame.
3. Unplug the USB connector from the SSB panel, and the power cable from the platform PSU.

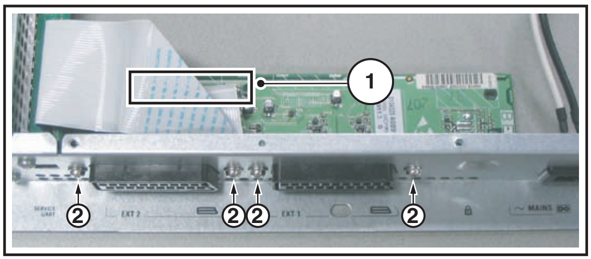


G_15990_151.eps
120506

Figure 4-42 Memory card reader / USB connector

4.5.6 External I/O SCART Panel

1. Remove the rear cover, as described previously.
2. Unplug connector [1] from the panel.
3. Remove screws [2].



G_15990_152.eps
120506

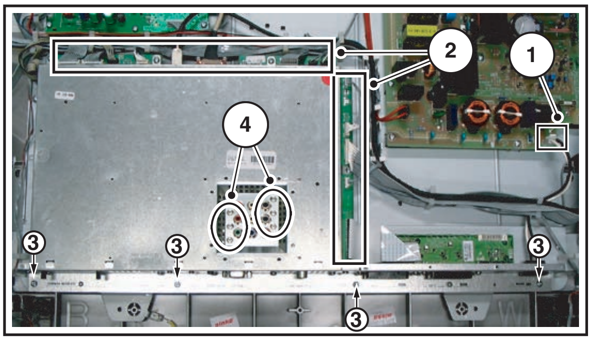
Figure 4-43 External I/O SCART panel

4.5.7 Small Signal Board (SSB)

Caution: it is absolutely mandatory to remount all different screws at their original position during re-assembly. Failure to do so may result in damaging the SSB.

Removal from the set

1. Remove the rear cover, as described previously.
2. Unplug connector [1] from the panel PSU.
3. Unplug all connectors [2] from the SSB panel.
4. Remove screws [3].
5. Take the complete SSB module out of the set and place it on a flat workbench.

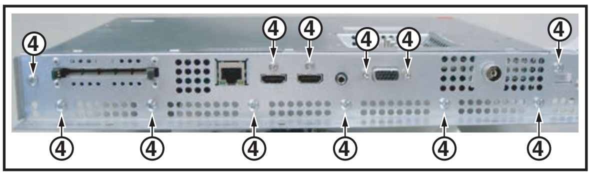


G_15990_153.eps
120506

Figure 4-44 SSB panel 1/3

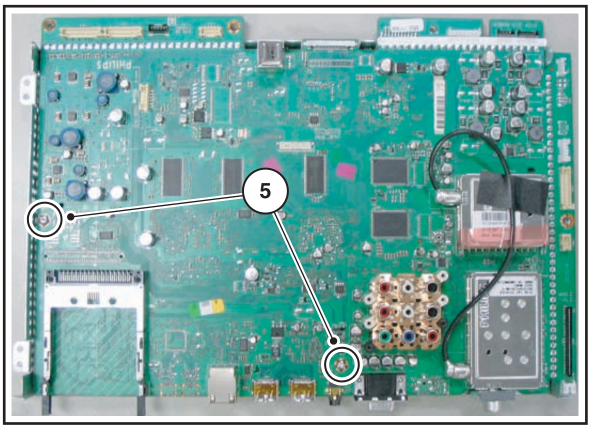
Removing the shielding

1. Remove screws [4] .
2. Remove the connector plate and the top shielding.
3. Remove screws [5] and remove the SSB panel from the bottom shielding.



G_15990_154.eps
120506

Figure 4-45 SSB panel 2/3

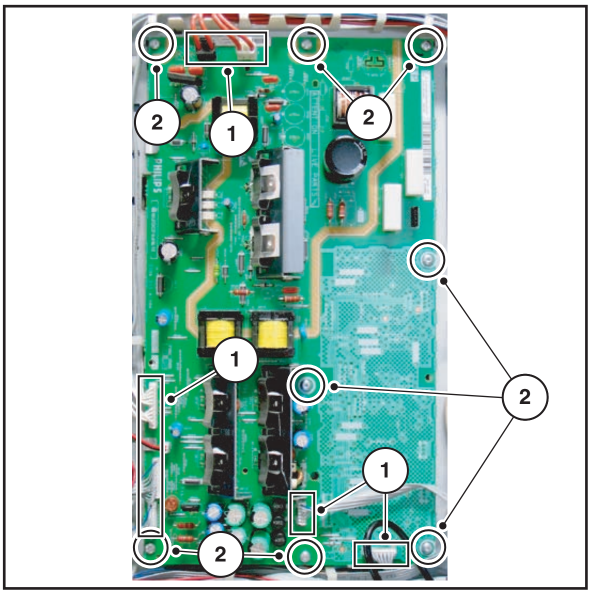


G_15990_155.eps
120506

Figure 4-46 SSB panel 3/3

4.5.8 Platform Supply

1. Remove the rear cover, as described previously.
2. Unplug connectors [1] from the panel.
3. Remove screws [2].

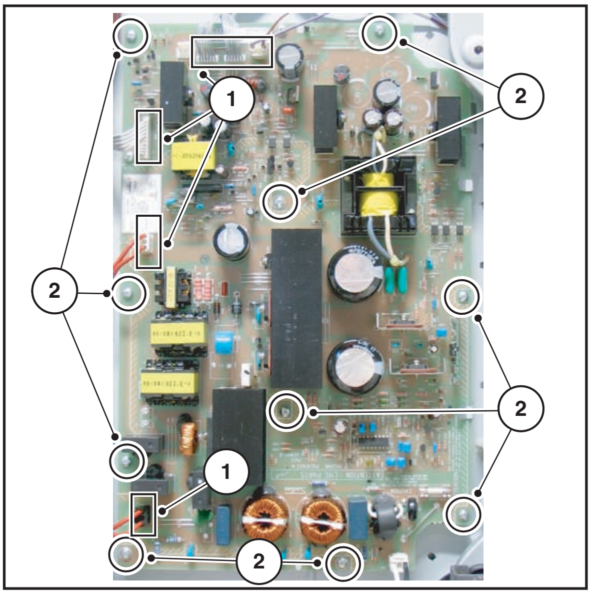


G_15990_156.eps
120506

Figure 4-47 Platform supply

4.5.9 LCD Panel Supply

1. Remove the rear cover, as described previously.
2. Unplug connectors [1] from the panel.
3. Remove screws [2].



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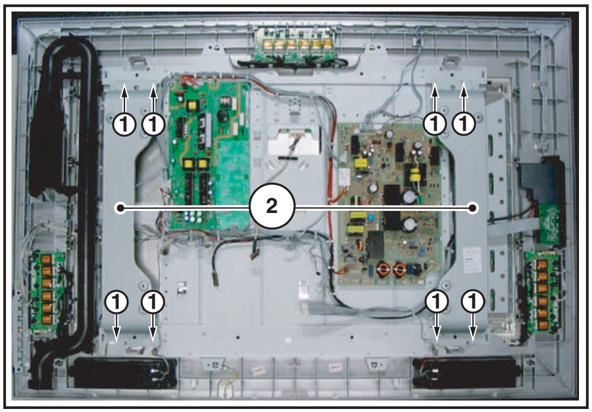
120506

Figure 4-48 LCD panel supply

4.5.10 LCD Display Panel

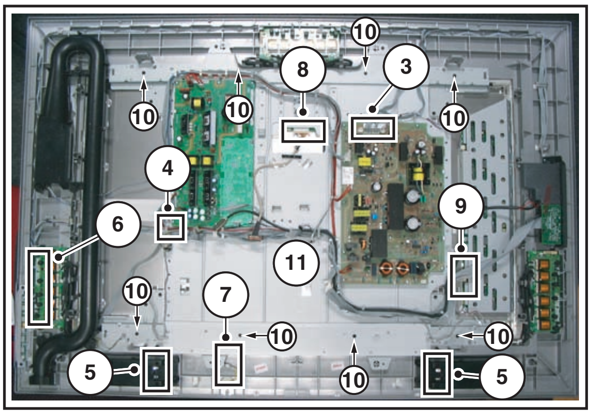
For exchanging the LCD display, see figures “LCD Display Panel removal”.

1. Remove the rear cover, as described previously.
2. Remove the SSB module, as described previously.
3. Remove the screws [1]
4. Remove brackets [2].
5. Unplug connectors [3] from the panel PSU.
6. Unplug connector [4] from the platform PSU.
7. Unplug connectors [5] from the loudspeakers.
8. Unplug connectors [6] from the right hand ambilight lamp driver PWB.
9. Unplug earth wire [7].
10. Carefully unplug the fragile LVDS connector [8].
11. Unplug connector [9] from the X-Main PWB.
12. Remove screws [10].
13. Remove the metal subframe [11].
14. Remove screws [12].
15. Remove plastic subframe [13].
16. Release catches [14] and lift the ambilight lamp frame [15] from the remains of the set.
17. Remove the LCD panel [16].



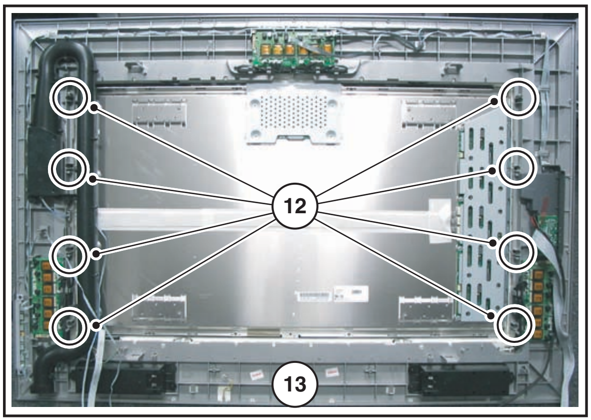
G_15990_158.eps
120506

Figure 4-49 LCD display panel removal 1/4



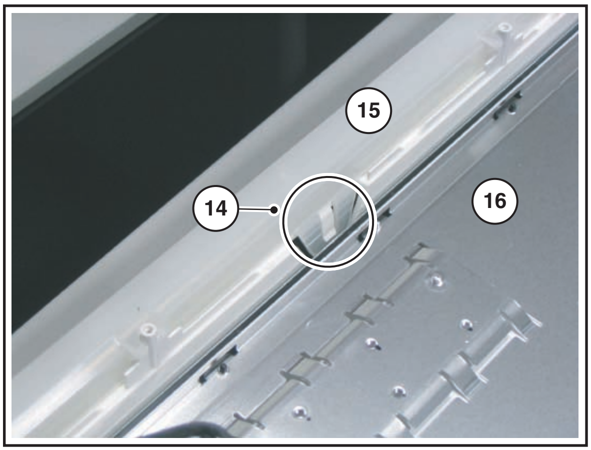
G_15990_159.eps
120506

Figure 4-50 LCD display panel removal 2/4



G_15990_160.eps
120506

Figure 4-51 LCD display panel removal 3/4

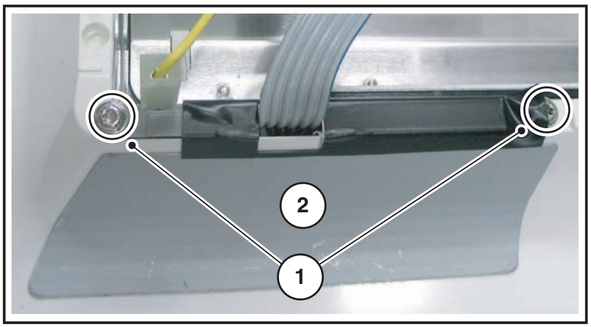


G_15990_161.eps
120506

Figure 4-52 LCD Display panel removal 4/4

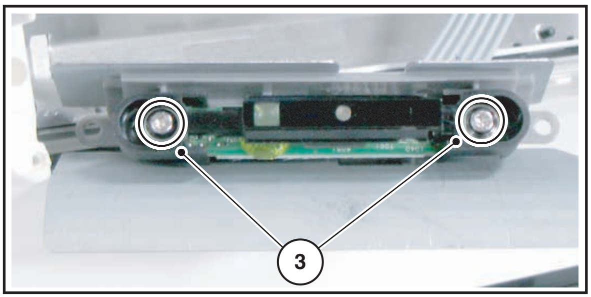
4.5.11 LED/IR Sensor Removal

1. Remove the LCD panel, as described previously.
2. Remove screws [1] .
3. Pull bracket [2] out of the frame.
4. Remove screws [3].
5. Pull the PWB out of the bracket.
6. Unplug connector [4].



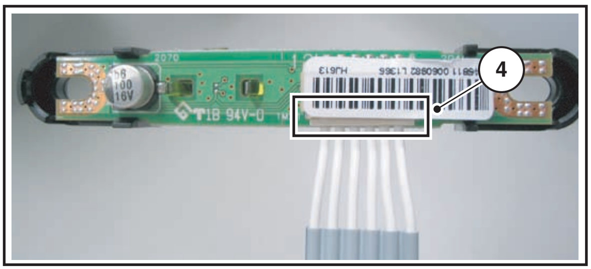
G_15990_162.eps
120506

Figure 4-53 LED/IR sensor removal 1/3



G_15990_163.eps
120506

Figure 4-54 LED/IR sensor removal 2/3



G_15990_164.eps
120506

Figure 4-55 LED/IR sensor removal 3/3

4.5.12 Ambilight Lamp Inverter Board Left

1. Remove the rear cover, as described previously.
2. Unplug connectors [1].
3. Remove screw [2].
4. Release clamp [3].

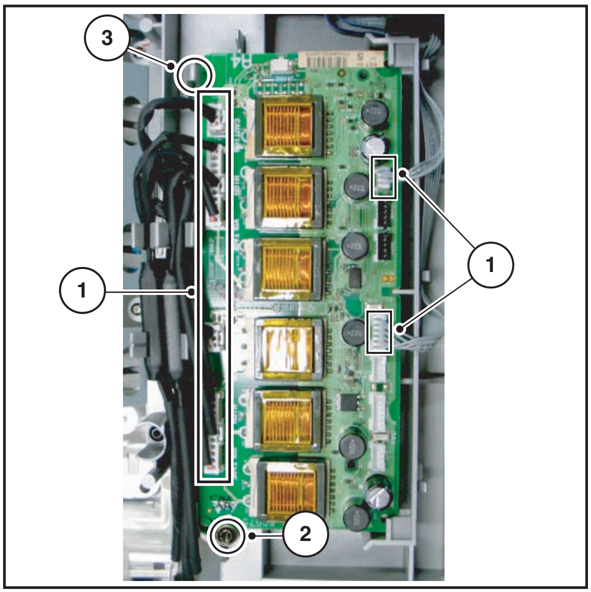


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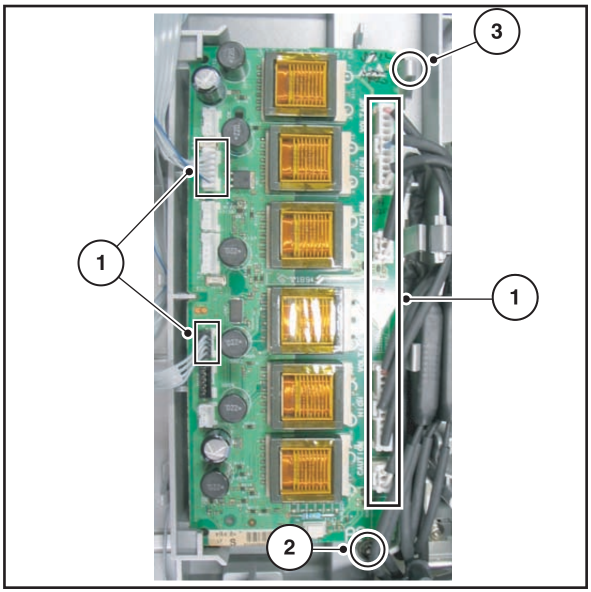
Figure 4-56 Ambilight Lamp inverter board left

4.5.13 Ambilight Lamp Inverter Board Right

1. Remove the rear cover, as described previously.
2. Unplug connectors [1] .
3. Remove screw [2].
4. Release clamp [3].



G_15990_166.eps
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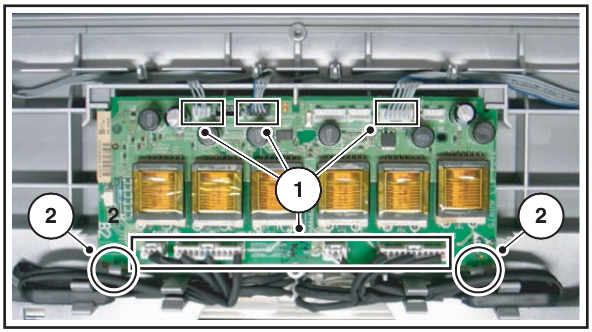
Figure 4-57 Ambilight Lamp inverter board right

4.5.14 Ambilight Lamp Inverter Board Top

1. Remove the rear cover, as described previously.
2. Unplug connectors [1] .
3. Release clamp [2].

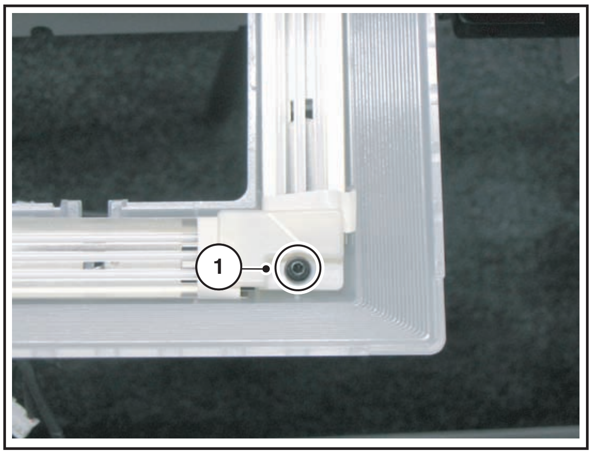


G_15990_167.eps
120506

Figure 4-58 Ambilight Lamp inverter board top

4.5.15 Ambilight Lamp Module

1. Carry out the disassembly “LCD Display Panel”, except for the last point.
2. Put the ambilight lamp frame on a flat workbench.
3. Remove screws [1].



G_15990_168.eps
120506

Figure 4-59 Ambilight Lamp module

4.6 Assy/Panel Removal “Step 2k6” styling

No information available at time of printing.

4.7 Set Re-assembly

To re-assemble the whole set, execute all processes in reverse order.

Notes:
- While re-assembling, make sure that all cables are placed and connected in their original position. See figure "Cable dressing".
- Pay special attention not to damage the EMC foams on the SSB shields. Ensure that EMC foams are mounted correctly.

5. Service Modes, Error Codes, and Fault Finding

Index of this chapter:

5.1 Test Points
5.2 Service Modes
5.3 Stepwise Start-up
5.5 Error Codes
5.6 The Blinking LED Procedure
5.7 Protections
5.8 Fault Finding and Repair Tips
5.9 Software Upgrading

5.1 Test Points

The chassis is equipped with test points (Fxxx) printed on the circuit board assemblies. As most signals are digital, it will be difficult to measure waveforms with a standard oscilloscope. Several key ICs are capable of generating test patterns, which can be controlled via ComPair. In this way it is possible to determine which part is defective.

Perform measurements under the following conditions:

- Service Default Mode.
- Video: Colour bar signal.
- Audio: 3 kHz left, 1 kHz right.

5.2 Service Modes

Service Default mode (SDM) and Service Alignment Mode (SAM) offers several features for the service technician, while the Customer Service Mode (CSM) is used for communication between the call centre and the customer. Also a service mode for servicing the AmbiLights units is foreseen.

This chassis also offers the option of using ComPair, a hardware interface between a computer and the TV chassis. It offers the abilities of structured troubleshooting, error code reading, and software version read-out for all chassis. *Minimum requirements for ComPair:* a Pentium processor, a Windows OS, and a CD-ROM drive (see also paragraph "ComPair").

5.2.1 Service Default Mode (SDM)

Purpose

- To create a pre-defined setting, to get the same measurement results as given in this manual.
- To override SW protections detected by standby processor and make the TV start up to the step just before protection (a sort of automatic stepwise start up). See paragraph “Stepwise Start Up”.
- To override SW protections detected by Viper. Depending on the SW version it is possible that this mechanism does not work correctly. See also paragraph “Error codes”.
- To start the blinking LED procedure (not valid in protection mode).

Specifications

Table 5-1 SDM default settings

Region	Freq. (MHz)	Default system
Europe, AP(PAL/Multi)	475.25	PAL B/G
Europe, AP DVBT	546.000 PID Video: 0B 06 PID PCR: 0B 06 PID Audio: 0B 07	DVBT

- All picture settings at 50% (brightness, colour, contrast).
- All sound settings at 50%, except volume at 25%.
- All service-unfriendly modes (if present) are disabled, like:
  - (Sleep) timer.
  - Child/parental lock.
  - Picture mute (blue mute or black mute).
  - Automatic volume levelling (AVL).
  - Auto switch "off" (when no video signal was received for 10 minutes).
  - Skip/blank of non-favourite pre-sets.
  - Smart modes.
  - Auto store of personal presets.
  - Auto user menu time-out.

How to Activate SDM

For DVBT TV’s there are two kinds of SDM : an analogue SDM and a digital SDM. Tuning will happen according table “SDM default settings”.

- Analogue SDM: use the standard RC-transmitter and key in the code “062596”, directly followed by the “MENU” button.
  Note: It is possible that, together with the SDM, the main menu will appear. To switch it "off", push the “MENU” button again.
- Analogue SDM can also be activated by shorting for a moment the two solder pads [1] on the SSB, with the indication “SDM”. They are located outside the shielding. Activation can be performed in all modes, except when the set has a problem with the Standby Processor. See figure “Service mode pads”.
- Digital SDM: use the standard RC-transmitter and key in the code “062593”, directly followed by the “MENU” button. Depending on the software version it is possible that the tuning will not work correctly.
  Note: It is possible that, together with the SDM, the main menu will appear. To switch it "off", push the “MENU” button again.

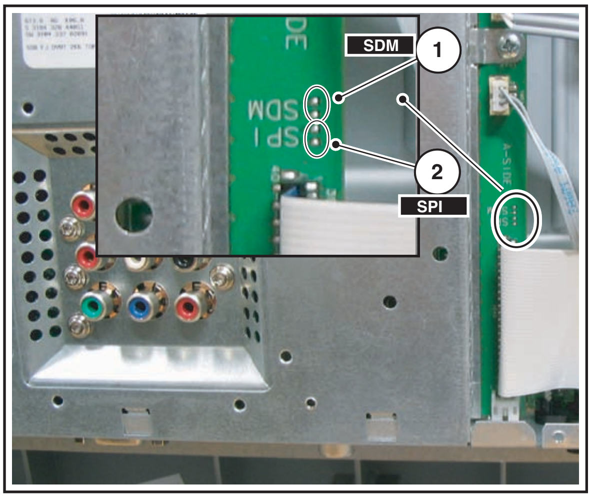


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Figure 5-1 Service mode pads

After activating this mode, “SDM” will appear in the upper right corner of the screen (if you have picture).

How to Navigate

When you press the “MENU” button on the RC transmitter, the set will toggle between the SDM and the normal user menu (with the SDM mode still active in the background).

How to Exit SDM

Use one of the following methods:

- Switch the set to STANDBY via the RC-transmitter.
- Via a standard customer RC-transmitter: key in "00"-sequence.

5.2.2 Service Alignment Mode (SAM)

Purpose

- To perform (software) alignments.
- To change option settings.
- To easily identify the used software version.
- To view operation hours.
- To display (or clear) the error code buffer.

How to Activate SAM

Via a standard RC transmitter: key in the code "062596" directly followed by the "INFO" button. After activating SAM with this method a service warning will appear on the screen, you can continue by pressing the red button on the RC.

Contents of SAM:

- **Hardware Info.**
  - **A. SW Version.** Displays the software version of the VIPER software (main software) (**example:** JA30E-1.2.3.4_12345 = AAAAB_X.Y.W.Z_NNNNN).
    - **AAAA**= the software name.
    - **B**= the region: A= AP, E= EU, L= LatAm, U = US. For AP sets it is possible that the Europe software version is used.
    - **X.Y.W.Z**= the software version, where X is the main version number (different numbers are not compatible with one another) and Y.W.Z is the sub version number (a higher number is always compatible with a lower number).
    - **NNNNN**= last five digits of 12nc code of the software.
  - **B. SBY PROC Version.** Displays the software version of the standby processor.
  - **C. Production Code**. Displays the production code of the TV, this is the serial number as printed on the back of the TV set. Note that if an NVM is replaced or is initialized after corruption, this production code has to be re-written to NVM. ComPair will foresee in a possibility to do this.
- **Operation Hours.** Displays the accumulated total of operation hours (not the standby hours). Every time the TV is switched "on/off", 0.5 hours is added to this number.
- **Errors.** (Followed by maximal 10 errors). The most recent error is displayed at the upper left (for an error explanation see paragraph "Error Codes").
- **Defective Module.** Here the module that generates the error is displayed. If there are multiple errors in the buffer, which are not all generated by a single module, there is probably another defect. It will then display the message "UNKNOWN" here. Not all errors will display a defective module name.
- **Reset Error Buffer.** When you press "cursor right" and then the "OK" button, the error buffer is reset.
- **Alignments.** This will activate the "ALIGNMENTS" sub-menu.
- **Dealer Options.** Extra features for the dealers.
- **Options.** Extra features for Service. For more info regarding option codes, see chapter 8.
  Note that if you change the option code numbers, you have to confirm your changes with the "OK" button before you store the options. Otherwise you will lose your changes.
- **Initialise NVM.** When an NVM was corrupted (or replaced) in the former EMG based chassis, the microprocessor replaces the content with default data (to assure that the set can operate). However, all preferences and alignment values are gone now, and option numbers are not correct. Therefore, this was a very drastic way. In this chassis, the procedure is implemented in another way: The moment the processor recognizes a corrupted NVM, the "initialize NVM" line will be highlighted. Now, you can do two things (depending of the service instructions at that moment):
  - Save the content of the NVM via ComPair for development analysis, **before** initializing. This will give the Service department an extra possibility for diagnosis (e.g. when Development asks for this).
  - Initialize the NVM (same as in the past, however now it happens conscious).

Note: When you have a corrupted NVM, or you have replaced the NVM, there is a high possibility that you will not have picture any more because your display option is not correct. So, before you can initialize your NVM via the SAM, you need to have picture and therefore you need the correct display option. To adapt this option, you can use ComPair (the correct HEX values for the options can be found in the table below) or a method via a standard RC (described below).

Changing the display option via a standard RC:

Key in the code "062598" directly followed by the "MENU" button and "XXX" (where XXX is the 3 digit decimal display option code as mentioned in the first column of the next table). Make sure to key in all three digits, also the leading zero's.

If the above action is successful, the front LED will go out as an indication that the RC sequence was correct.

After the display option is changed in the NVM, the TV will go to the Standby mode.

If the NVM was corrupted or empty before this action, it will be initialised first (loaded with default values). This initialising can take up to 20 seconds.

Display option	HEX	Display type	Brand	SIZE	Full HD	Clear LCD	Resolution vertical	Resolution horizontal	Type number	12 NC
000	00	PDP	SDI	42			768p	1024	S42AX-YD01(PP42AX-007A)	9322 225 38682
001	01	PDP	SDI	50			768p	1366	S50HW-XD03	9322 215 26682
002	02	PDP	FHP	42			1024i	1024	FPF42C128128UC-52 (A1)	9322 212 78682
003	03	LCD	LPL	30			768p	1280	LC300W01-A3P7	9322 198 00682
004	04	LCD	LPL	37			768p	1366	LC370W01-A6	9322 220 87682
005	05	LCD	LPL	42			768p	1366	LC420W02-A6	9322 226 39682
006	06	LCD	Sharp	32			768p	1366	LQ315T3LZ13 (ASV1) LQ315T3LZ23 (ASV2.2)(5Vtcon) LQ315T3LZ23 (ASV2.2)(12Vtcon)	9322 209 35682 9322 226 58682 9322 226 16682
007	07	PDP	SDI	42			480p	852	S42SD-YD05 (V3)	9322 215 27682
008	08	PDP	FHP	37			1024i	1024	FPF37C128128UB-72	9322 217 56682
009	09	LCOS XION					720p	1280	n.a.	n.a.
010	0A	LCD	AUO	30			768p	1280	T296XW01 T296XW01V2 T296XW01V3	9322 206 49682 9322 219 45682 9322 213 33682
011	0B	LCD	LPL	32			768p	1366	LC320W01-A6K1	9322 217 44682
012	0C	LCD	AUO	32			768p	1366	T315XW01V5	9322 231 69682
013	0D	LCD	Sharp	37			768p	1366	LQ370T3LZ21 (ASV2) LQ370T3LZ44 (ASV2.2)	?
014	0E	LCD	LPL	42	X		1080p	1920	LC420WU1-SL01	9322 228 99682
015	0F	PDP	SDI	37			480p	852	S37SD-YD02	9322 217 39682
016	10	PDP	FHP	37			1080i	1024	not used	not used
017	11	PDP	FHP	42			1080i	1024	FPF42C128135UA-52	9322 235 43682
018	12	PDP	FHP	55			768p	1366	not used	not used
019	13	LCOS VENUS					720p	1280	n.a.	n.a.
020	14	LCOS VENUS			X		1080p	1920	n.a.	n.a.
021	15	LCD	LPL	26			768p	1366	LC260WX2-SL01	9322 221 01682
022	16	LCD	LPL	32		X	768p	1366	LC320WX2-SL01	9322 241 46682
023	17	PDP	LGE	42			480p	852	not used	not used
024	18	PDP	SDI	42			480p	852	S42SD-YD07(PP42SD-015A) (V4) S42SD-YD07(PP42SD-015B) (V4) S42SD-YD07(PP42SD-015F) (V4)	9322 226 37682 9322 226 96682 9322 233 81682
025	19	PDP	SDI	42			768p	1024	S42AX-YD01(PP42AX-007A) (V4) S42AX-YD01(PP42AX-008A) (V4) S42AX-YD01(PP42AX-008B) (V4) S42AX-YD02(PP42AX-009A) (W1) S42AX-YD02 (PS-425-PHN) (W1)	9322 225 38682 9322 226 95682 9322 233 80682 9322 240 08682 9322 242 85682
026	1A	PDP	FHP	42			1024i	1024	FPF42C128128UD-51 (A2)	not used
027	1B	PDP	SDI	50			768p	1366	S50HW-XD04(PP50HW-005A) (V4) S50HW-XD04(PP50HW-005B) (V4) S50HW-XD04(PP50HW-005E) (V4) S50HW-YD01(PP50HW-010A) (W1)	9322 226 54682 9322 226 97682 9322 233 79682 9322 240 25682
028	1C	LCD	Sharp	37	X		1080P	1920	LQ370D3LZ13 (ASV2.2)	9322 228 48682
029	1D	LCD	AUO	32			768p	1366	T315XW01-V3	see partslist for 12NC
030	1E	LCD	Sharp	37	X	X	1080p	1920	LW370D3LZ1x (ASV 3 first samples)	not used
031	1F	LCD	Sharp	37	X	X	1080P	1920	LK370D3LZ33 (ASV 3)	9322 242 22682
032	20	LCD	LPL	20			768p	1366	LC200WX1-SL01	9322 222 90682
033	21	LCD	QDI	23			768p	1366	QD23HL02 REV01 QD23HL02 REV01(03)	9322 223 91682 9322 232 69682
034	22	ECO PTV		51			1080i	1366	?	
035	23	ECO PTV		55			1080i	1366	?	
036	24	ECO PTV		61			1080i	1366	?	
037	25	PDP	FHP	42			1024I	1024	FPF42C128135UA-52 (A3)	9322 235 43682
038	26	DLP		50			720p	1280	?	
039	27	DLP		60			720p	1280	?	
040	28	LCD	Sharp	32			768p	1366	LK315T3LZ43 (ASV 2.3)	9322 235 32682
041	29	LCD	LPL	42		X	768p	1366	LC420WX2-SLA1	9322 240 80682
042	2A	PDP	SDI	63			768p	1366	S63HW-XD05	9322 246 18682
043	2B	LCD	Sharp	37		X	768p	1366	LK370T3LZ63 (ASV 3)	see partslist for 12NC
044	2C	LCD	Sharp	37			768p	1366	LK370T3LZ53 (ASV 2.3)	9322 235 83682
045	2D	LCD	LPL	26			768p	1366	LC260WX2-SLB2	9322 234 13682
046	2E	LCD	LPL	32			768p	1366	LC320W01-SL06	9322 230 03682
047	2F	LCD	LPL	42			768p	1366	LC420W02-SLB1	9322 234 12682
048	30	LCD	QDI	26			768p	1366	QD26HL02-REV01 QD26HL02-REV02	9322 227 29682 9322 235 05682
049	31	LCD	AUO	26			768p	1366	T260XW02V4	9322 231 90682
050	32	LCD	AUO	32			768p	1366	T315XW01V9/ T315X02VD	9322 231 89682
051	33	LCD	AUO	37			768p	1366	T370XW01V1	9322 233 78682
052	34	LCD	AUO	32			768p	1366	T315XW02V5	see partslist for 12NC
053	35	LCD	LPL	37			768p	1366	LC370WX1-SL04	9322 233 19682
054	36	PDP	LGE	42			768p	1024	PDP42X3	see partslist for 12NC
055	37	LCD	LPL	42	X		1080p	1920	LC420WU2-SLA1	see partslist for 12NC
056	38	LCD	LPL	47	X		1080p	1920	LC470WU1-SLC2	see partslist for 12NC
057	39	LCD	LPL	42			768p	1366	LC420WX3-SLA2	see partslist for 12NC

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Figure 5-2 Display option code overview

- **Store.** All options and alignments are stored when pressing "cursor right" and then the "OK"-button
- **SW Maintenance.**
  - **SW Events.** Not useful for Service purposes. In case of specific software problems, the development department can ask for this info.
  - **HW Events.** Not useful for Service purposes. In case of specific software problems, the development department can ask for this info.

- **Operating hours.** Here you are able to reset the operations hours of the display. This has to be done in case of replacement of the display.
- **Upload to USB.** Here you are able to upload several settings from the TV to a USB stick which is connected to the Side IO. The four items are "Channel list", "Personal settings", "Option codes" and "Display-related alignments". First you have to create a directory "repair\" in the root of the USB stick.To upload the settings you have to select each item separately, press "cursor right", confirm with "OK" and wait until "Done" appears. Now the settings are stored onto your USB stick and can be used to download onto another TV or other SSB. Uploading is of course only possible if the software is running and if you have picture. This method is created to be able to save the customer's TV settings and to store them into another SSB.
- **Download from USB.** Here you are able to download several settings from the USB stick to the TV. Same way of working as with uploading. To make sure that the download of the channel list from USB to the TV is executed properly, it is necessary to restart the TV and tune to a valid preset if necessary.

How to Navigate

- In SAM, you can select the menu items with the "CURSOR UP/DOWN" key on the RC-transmitter. The selected item will be highlighted. When not all menu items fit on the screen, move the "CURSOR UP/DOWN" key to display the next/previous menu items.
- With the "CURSOR LEFT/RIGHT" keys, it is possible to:
  - (De) activate the selected menu item.
  - (De) activate the selected sub menu.
- With the "OK" key, it is possible to activate the selected action.

How to Exit SAM

Use one of the following methods:

- Press the "MENU" button on the RC-transmitter.
- Switch the set to STANDBY via the RC-transmitter.

5.2.3 Customer Service Mode (CSM)

Purpose

When a customer is having problems with his TV-set, he can call his dealer or the Customer Helpdesk. The service technician can then ask the customer to activate the CSM, in order to identify the status of the set. Now, the service technician can judge the severity of the complaint. In many cases, he can advise the customer how to solve the problem, or he can decide if it is necessary to visit the customer.
The CSM is a read only mode; therefore, modifications in this mode are not possible.

When in this chassis, CSM is activated, a colour bar test pattern will be visible for 5 seconds. This test pattern is generated by the Pacific3. So if you see this test pattern you can determine that the back end video chain (Pacific3, LVDS and display) is working.
Also new in this chassis: when you activate CSM and there is a USB stick connected to the TV, the software will dump the complete CSM content to the USB stick. The file (Csm.txt) will be saved in the root of your USB stick. This info can be handy if you don't have picture.

How to Activate CSM

Key in the code "123654" via the standard RC transmitter.

Note: Activation of the CSM is only possible if there is no (user) menu on the screen!

How to Navigate

By means of the "CURSOR-DOWN/UP" knob on the RC-transmitter, you can navigate through the menus.

Contents of CSM

- **Set Type.** This information is very helpful for a helpdesk/workshop as reference for further diagnosis. In this way, it is not necessary for the customer to look at the rear of the TV-set. Note that if an NVM is replaced or is initialized after corruption, this set type has to be re-written to NVM. ComPair will foresee a possibility to do this.
- **Production Code.** Displays the production code (the serial number) of the TV. Note that if an NVM is replaced or is initialized after corruption, this production code has to be re-written to NVM. ComPair will foresee a possibility to do this.
- **Code 1.** Gives the latest five errors of the error buffer. As soon as the built-in diagnose software has detected an error the buffer is adapted. The last occurred error is displayed on the leftmost position. Each error code is displayed as a 2-digit number. When less than 10 errors occur, the rest of the buffer is empty (00). See also paragraph Error Codes for a description.
- **Code 2.** Gives the first five errors of the error buffer. See also paragraph Error Codes for a description.
- **Options 1.** Gives the option codes of option group 1 as set in SAM (Service Alignment Mode).
- **Options 2.** Gives the option codes of option group 2 as set in SAM (Service Alignment Mode).
- **12NC SSB.** Gives an identification of the SSB as stored in NVM. Note that if an NVM is replaced or is initialized after corruption, this identification number has to be re-written to NVM. ComPair will foresee a possibility to do this.
  This identification number consists of 14 characters and is built up as follows:
  - 8 last characters of the 12NC of the SSB itself.
  - the serial number of the SSB, which consists of 6 digits.
  Both can be found on a sticker on the PWB of the SSB itself (**not** on the sticker on the outside of the shielding!). The format of the identification number is then as follows:
  <last 8 characters of 12NC of SSB><serial number of SSB> (total 14 characters).
- **Digital Natural Motion.** Gives the last status of the Digital Natural Motion setting, as set by the customer. Possible values are "Off", "Minimum" and "Maximum". See DFU on how to change this item.
- **Pixel Plus.** Gives the last status of the Pixel Plus setting, as set by the customer. Possible values are "On" and "Off". See DFU on how to change this item.
- **DNR.** Gives the last status of the DNR setting, as set by the customer. Possible values are "Off", "Minimum", "Medium" and "Maximum". See DFU on how to change this item.
- **Noise Figure.** Gives the noise ratio for the selected transmitter. This value can vary from 0 (good signal) to 127 (average signal) and to 255 (bad signal). For some software versions, the noise figure will only be valid when "Active Control" is set to "medium" or "maximum" before activating CSM. Noise figure is not applicable for DVBT channels.
- **Headphone Volume.** Gives the last status of the headphone volume, as set by the customer. The value can vary from 0 (volume is minimum) to 100 (volume is maximum). See DFU on how to change this item.
- **Dolby.** Indicates whether the received transmitter transmits Dolby sound ("ON") or not ("OFF"). Attention: The presence of Dolby can only be tested by the software on the Dolby Signalling bit. If a Dolby transmission is received without a Dolby Signalling bit, this indicator will show "OFF" even though a Dolby transmission is received.

- **Surround Mode.** Indicates the by the customer selected sound mode (or automatically chosen mode). Possible values are “STEREO” and “VIRTUAL DOLBY SURROUND”. It can also have been selected automatically by signalling bits (internal software). See DFU on how to change this item.
- **Centre Input.** Not applicable for this chassis.
- **Audio System.** Gives information about the audible audio system. Possible values are “Stereo”, ”Mono”, “Mono selected”, “Dual I”, “Dual II”, “Nicam Stereo”, “Nicam mono”, Nicam dual I”, “Nicam dual II”, “Nicam available”, “Analog In: No Dig. Audio”, “Dolby Digital 1+1”, “Dolby Digital 1/0”, “Dolby Digital 2/0”, “Dolby Digital 2/1”, “Dolby Digital 2/2”, “Dolby Digital 3/0”, “Dolby Digital 3/1”, “Dolby Digital 3/2”, “Dolby Digital Dual I”, “Dolby Digital Dual II”, “MPEG 1+1”, “MPEG 1/0”, “MPEG 2/0” and “Not supported signal”. This is the same info as you will see when pressing the “INFO” button in normal user mode (item “Sound”). When the audio is muted, there will be no info displayed.
- **AVL.** Indicates the last status of AVL (Automatic Volume Level) as set by the customer: See DFU on how to change this item.
- **Delta Volume.** Indicates the last status of the delta volume for the selected preset as set by the customer: from “-12” to “+12”. See DFU on how to change this item..
- **Preset Lock.** Indicates if the selected preset has a child lock: “LOCKED” or “UNLOCKED”. See DFU on how to change this item..
- **Child lock.** Indicates if “Child lock” is set to “UNLOCK”, “LOCKED” or “CUSTOM LOCK”. See DFU on how to change this item..
- **Lock after.** Indicates at what time the channel lock is set: “OFF” or e.g. “18:45” (lock time). See DFU on how to change this item.
- **Parental rating lock.** Gives the last status of the parental rating lock as set by the customer. See DFU on how to change this item.
- **Parental rating status.** Gives the value of the parental rating status as sent by the current preset.
- **TV ratings lock.** Only applicable for US.
- **Movie ratings lock.** Only applicable for US.
- **V-Chip TV status.** Only applicable for US.
- **V-Chip movie status.** Only applicable for US.
- **Region rating status (RRT).** Only applicable for US.
- **On timer.** Indicates if the “On timer” is set “ON” or “OFF” and when it is set to “ON”, also start time, start day and program number is displayed. See DFU on how to change this item.
- **Location.** Gives the last status of the location setting as set via the installation menu. Possible values are “Shop” and “Home”. If the location is set to “Shop”, several settings are fixed. So for a customer location must be set to “Home”. Can be changed via the installation menu (see also DFU).
- **HDMI key validity.** Indicates if the HDMI keys (or HDCP keys) are valid or not. In case these keys are not valid and the customer wants to make use of the HDMI functionality, the SSB has to be replaced.
- **IEEE key validity.** Not applicable.
- **POD key validity.** Not applicable.
- **Tuner Frequency.** Indicates the frequency the selected transmitter is tuned to.
- **TV System.** Gives information about the video system of the selected transmitter. In case a DVBT signal is received this item will also show ATSC.
  - BG: PAL BG signal received
  - DK: PAL DK signal received
  - L/La: SECAM L/La signal received
  - I: PAL I signal received
  - M: NTSC M signal received
  - ATSC: ATSC or DVBT signal received

- **Source.** Indicates which source is used and the video quality of the selected source. (Example: Tuner, Video) Source: “TUNER”, “EXT1”, “EXT2”, “EXT3”, “EXT4”, “YPbPr1”, “YPbPr2”, “VGA”, “DVI-I”, ““HDMI 1”, “HDMI 2”, “SIDE” and “DVI”. Video signal quality: “VIDEO”, “S-VIDEO”, “RGB 1FH”, “YUV”, “VGA”, “SVGA”, “XGA”, “CVBS”, Y/C”, “YPBPR 1FH 480p”, “YPBPR 1FH 576p”, “YPBPR 1FH 1080I”, “YPBPR 2FH 480p”, “YPBPR 2FH 576p”, “YPBPR 2FH 1080i”, “RGB 2FH 480p”, “RGB 2FH 576p”, “RGB 2FH 1080i”, “720p” or “Unsupported”.
- **Tuned Bit.** Due to the DVBT architectural setup this item does not give useful information any more.
- **Digital signal modulation.** No useful information for Service purposes.
- **12NC one zip SW.** Displays the 12NC number of the one-zip file as it is used for programming software in production. In this one-zip file all below software version can be found.
- **Initial main SW.** Displays the main software version which was initially loaded by the factory.
- **Current main SW.** Displays the built-in main software version. In case of field problems related to software, software can be upgraded. As this software is consumer upgradable, it will also be published on the Internet. Example: BX31E_1.2.3.4.
- **Flash utils SW.** Displays the software version of the software which contains all necessary components of the download application. To program this software, EJTAG tooling is needed. Example: FLASH_1.1.0.0.
- **Standby SW.** Displays the built-in standby processor software version. Upgrading this software will be possible via ComPair or via USB.(see chapter Software upgrade). Example: STDBY_3.0.1.2.
- **MOP SW.** Displays the MOP software version in case there is a MOP present.
- **Pacific 3 Flash SW.** Displays the Pacific 3 software version.
- **NVM version.** Displays the NVM version as programmed by factory.

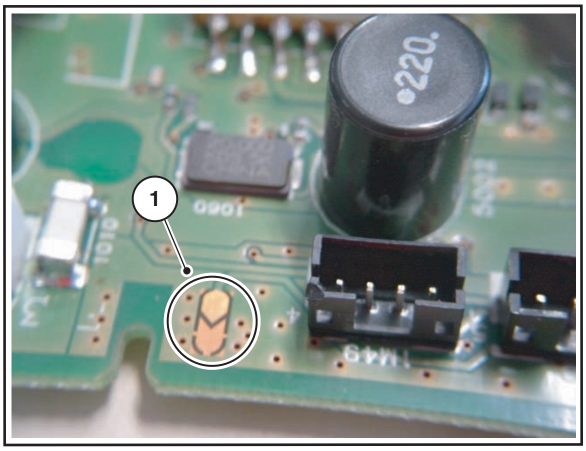
How to Exit CSM

Press “MENU” on the RC-transmitter.

5.2.4 Service Mode of Inverter Boards for Ambi Light

Purpose
To switch on the lamps manually in case I^2C-bus triggering fails.

The Service Mode can be activated by disconnecting connectors 1M59 and 1M49 and then by shorting for a moment the two solder pads [1] on the Ambi Light Inverter Panel (jumper 0101). See figure “Service Mode pads”. In case of absence of this jumper (older boards), short pin 5 of connector 1M59 to ground. Refer to chapter “Circuit diagrams and PWB Layouts” for details.



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311006

Figure 5-3 Service Mode pads AmbiLight panel

In this chassis, both single and double fitted boards can be used. The double fitted boards are used in sets with 3 or 4 sided Ambi Light units whereas the single fitted boards are used in sets with 2 sided Ambi Light units. A double fitted board can drive 2 lamp units (6 lamps) and a single fitted board can drive 1 lamp unit (3 lamps).

The double fitted boards are supplied by +12Va and +12Vb. The microprocessor is supplied by +12Va.
Therefore, if only +12Va is available, lamp unit B will not work. See figure “Building blocks of Converter Board” for details.

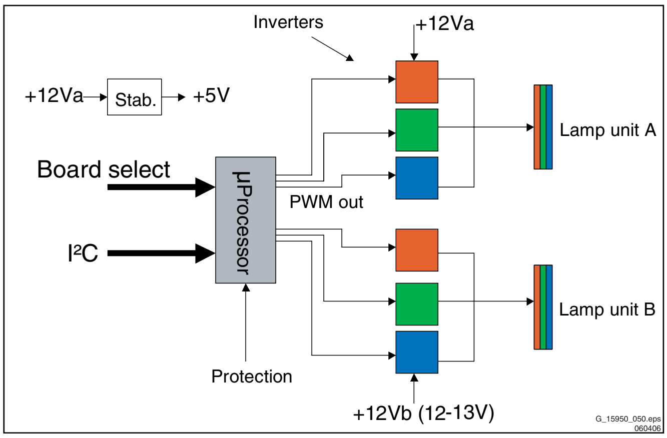


Figure 5-4 Building blocks of Converter Board

The microprocessor performs the following tasks:
- Dimming of Ambi Light by means of PWM.
- Translation of I^2C-bus commands to PWM.
- Switches the Ambi Light board to protection if needed (in case of protection only the lamps switch off, no set protection is triggered).

There are two ways of protection: parallel arcing protection and serial arcing protection.
Parallel arcing protection is performed by sensing the switching frequency. In case of short circuit of the transformer output, this frequency > 100 kHz and the board goes into protection.
Serial arcing protection is performed by detection of arc in ground wire of the lamp units. In this case, the protection pulse is transmitted via an opto-coupler.
Protection can be disabled by short-circuiting diode 6112 or capacitor 2173 or by connecting pin 8 of the microprocessor to ground.

Repair Tips
In case only one or no lamp unit at all works, probably the +12Vb (12 - 13 V) is not available or the fuse is broken. Check for broken MOSFETS or check if they are switched off properly by the transistors connected to the PWM outputs of the microprocessor.

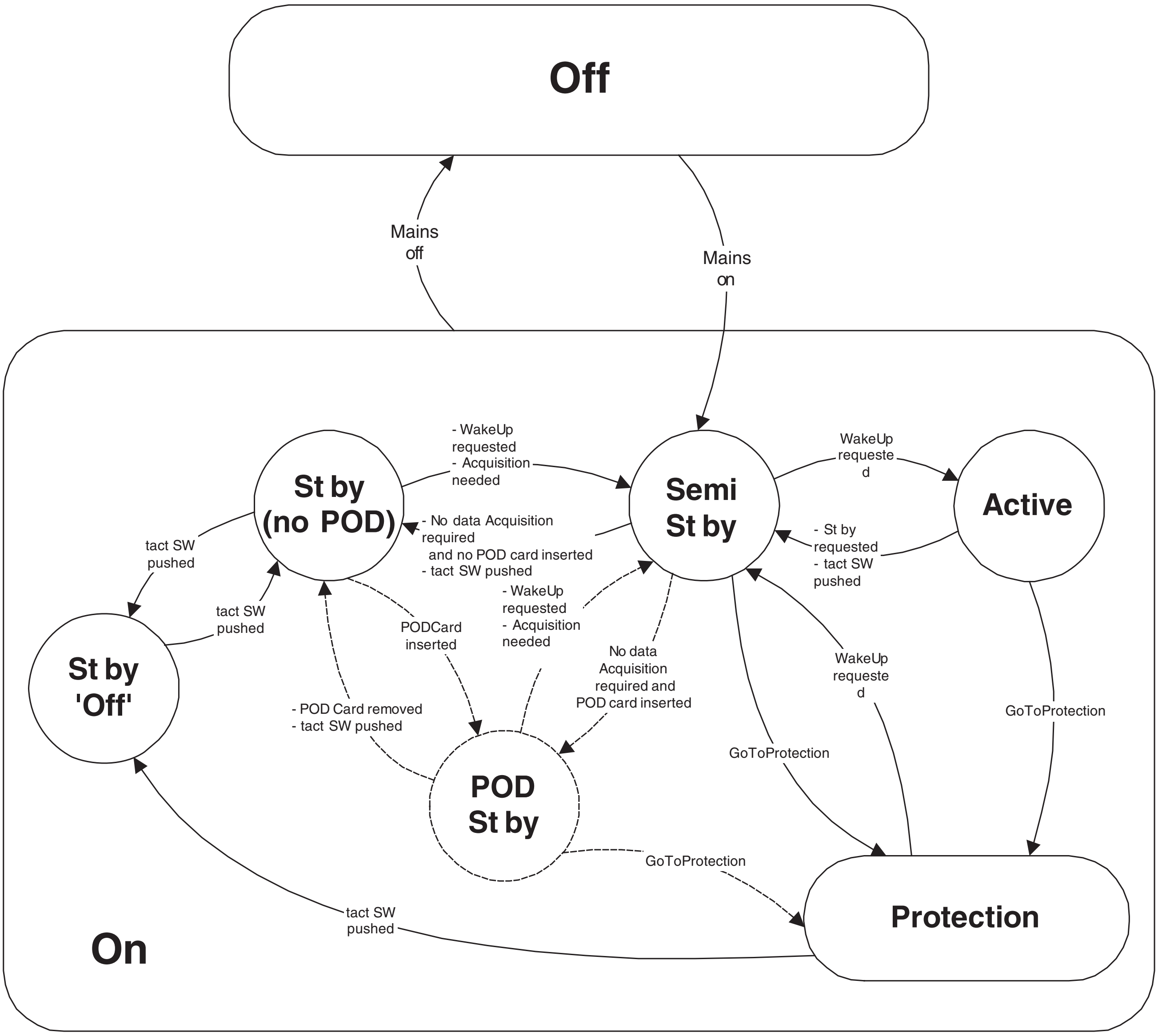
In case the Ambi Light switches off after two seconds, serial arcing or parallel arcing protection is active. Serial arcing protection can be excluded by disconnecting the opto-coupler; check for bad solder joints on transformer or lamp units. Parallel arcing protection can be disabled by grounding pin 8 of the microprocessor. Usually the switching frequency (normally 63 kHz) will then be too high. Possible causes are one MOSFET of the converter has no gate drive or is broken, or there is a short-circuit of the output of the transformer.

5.3 Stepwise Start-up

The stepwise start-up method, as known from FTL/FTP sets (EMG based sets) is not valid any more. There are two possible situations: one for protections detected by standby software and one for protections detected by main software.
When the TV is in a protection state due to an error detected by standby software (and thus blinking an error) **and** SDM is activated via shortcutting the pins on the SSB, the TV starts up until it reaches the situation just before protection. So, this is a kind of automatic stepwise start-up. In combination with the start-up diagrams below, you can see which supplies are present at a certain moment. Important to know here is, that if e.g. the 3V3 detection fails (and thus error 11 is blinking) **and** the TV is restarted via SDM, the Standby Processor will enable the 3V3, but will not go to protection now. The TV will stay in this situation until it is reset (Mains/AC Power supply interrupted).
When the TV is in protection state due to an error detected by main software (Viper protection) **and** SDM is activated via shortcutting the pins on the SSB, the TV starts up and ignores the error. Due to architectural reasons it is possible that the TV will end up in an undefined state (e.g. when the fast I^2C bus is blocked). In this case diagnose has to be done via ComPair.

The abbreviations “SP” and “MP” in the figures stand for:
- SP: protection or error detected by the **S**tand-by **P**rocessor.
- MP: protection or error detected by the VIPER **M**ain **P**rocessor.

Note: In the next transition diagrams for “POD” should be read “Common Interface (CI)”. For analogue sets, any reference to “POD” should be neglected.


Off
Mains off
Mains on
On
St by (no POD)
Semi St by
Active
St by 'Off'
POD St by
Protection
- WakeUp requested
- Acquisition needed
- No data Acquisition required and no POD card inserted
- tact SW pushed
WakeUp requested
- St by requested
- tact SW pushed
tact SW pushed
tact SW pushed
PODCard inserted
- WakeUp requested
- Acquisition needed
No data Acquisition required and POD card inserted
- POD Card removed
- tact SW pushed
WakeUp requested
GoToProtection
GoToProtection
GoToProtection
tact SW pushed

The protection state is hardware wise identical to the standby state but has other, limited wake up reasons.

The POD st-by mode is currently not used in a Full Jaguar (FJ) environment since all US products use the Baby Jaguar (BJ) platform and a POD st-by mode is of no use in a non US environment.

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Figure 5-5 Transition diagram

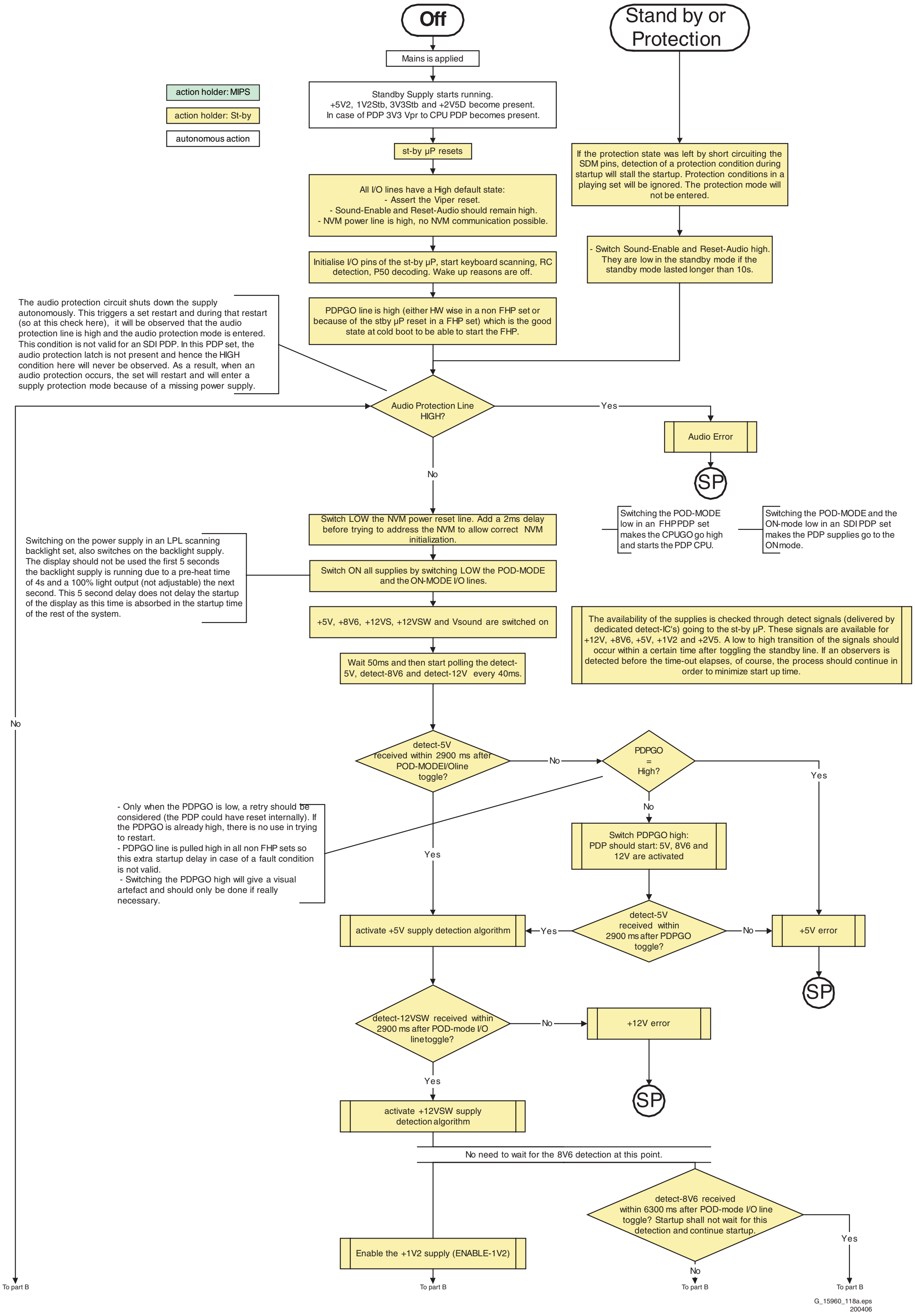
Off
Stand by or Protection
Mains is applied
action holder: MIPS
action holder: St-by
autonomous action
Standby Supply starts running.
+5V2, 1V2Stb, 3V3Stb and +2V5D become present.
In case of PDP 3V3 Vpr to CPU PDP becomes present.
st-by µP resets
If the protection state was left by short circuiting the SDM pins, detection of a protection condition during startup will stall the startup. Protection conditions in a playing set will be ignored. The protection mode will not be entered.
All I/O lines have a High default state:
- Assert the Viper reset.
- Sound-Enable and Reset-Audio should remain high.
- NVM power line is high, no NVM communication possible.
- Switch Sound-Enable and Reset-Audio high. They are low in the standby mode if the standby mode lasted longer than 10s.
Initialise I/O pins of the st-by µP, start keyboard scanning, RC detection, P50 decoding. Wake up reasons are off.
The audio protection circuit shuts down the supply autonomously. This triggers a set restart and during that restart (so at this check here), it will be observed that the audio protection line is high and the audio protection mode is entered. This condition is not valid for an SDI PDP. In this PDP set, the audio protection latch is not present and hence the HIGH condition here will never be observed. As a result, when an audio protection occurs, the set will restart and will enter a supply protection mode because of a missing power supply.
PDPGO line is high (either HW wise in a non FHP set or because of the stby µP reset in a FHP set) which is the good state at cold boot to be able to start the FHP.
Audio Protection Line HIGH?
Yes
Audio Error
SP
No
Switching the POD-MODE low in an FHP PDP set makes the CPUGO go high and starts the PDP CPU.
Switching the POD-MODE and the ON-mode low in an SDI PDP set makes the PDP supplies go to the ON mode.
Switch LOW the NVM power reset line. Add a 2ms delay before trying to address the NVM to allow correct NVM initialization.
Switching on the power supply in an LPL scanning backlight set, also switches on the backlight supply. The display should not be used the first 5 seconds the backlight supply is running due to a pre-heat time of 4s and a 100% light output (not adjustable) the next second. This 5 second delay does not delay the startup of the display as this time is absorbed in the startup time of the rest of the system.
Switch ON all supplies by switching LOW the POD-MODE and the ON-MODE I/O lines.
+5V, +8V6, +12VS, +12VSW and Vsound are switched on
The availability of the supplies is checked through detect signals (delivered by dedicated detect-IC's) going to the st-by µP. These signals are available for +12V, +8V6, +5V, +1V2 and +2V5. A low to high transition of the signals should occur within a certain time after toggling the standby line. If an observers is detected before the time-out elapses, of course, the process should continue in order to minimize start up time.
Wait 50ms and then start polling the detect-5V, detect-8V6 and detect-12V every 40ms.
No
detect-5V received within 2900 ms after POD-MODEI/Oline toggle?
No
PDPGO = High?
Yes
- Only when the PDPGO is low, a retry should be considered (the PDP could have reset internally). If the PDPGO is already high, there is no use in trying to restart.
- PDPGO line is pulled high in all non FHP sets so this extra startup delay in case of a fault condition is not valid.
- Switching the PDPGO high will give a visual artefact and should only be done if really necessary.
No
Switch PDPGO high: PDP should start: 5V, 8V6 and 12V are activated
Yes
activate +5V supply detection algorithm
Yes
detect-5V received within 2900 ms after PDPGO toggle?
No
+5V error
SP
detect-12VSW received within 2900 ms after POD-mode I/O line toggle?
No
+12V error
SP
Yes
activate +12VSW supply detection algorithm
No need to wait for the 8V6 detection at this point.
detect-8V6 received within 6300 ms after POD-mode I/O line toggle? Startup shall not wait for this detection and continue startup.
Yes
Enable the +1V2 supply (ENABLE-1V2)
No
To part B
To part B
To part B
To part B
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Figure 5-6 “Off” to “Semi Standby” flowchart (part 1)

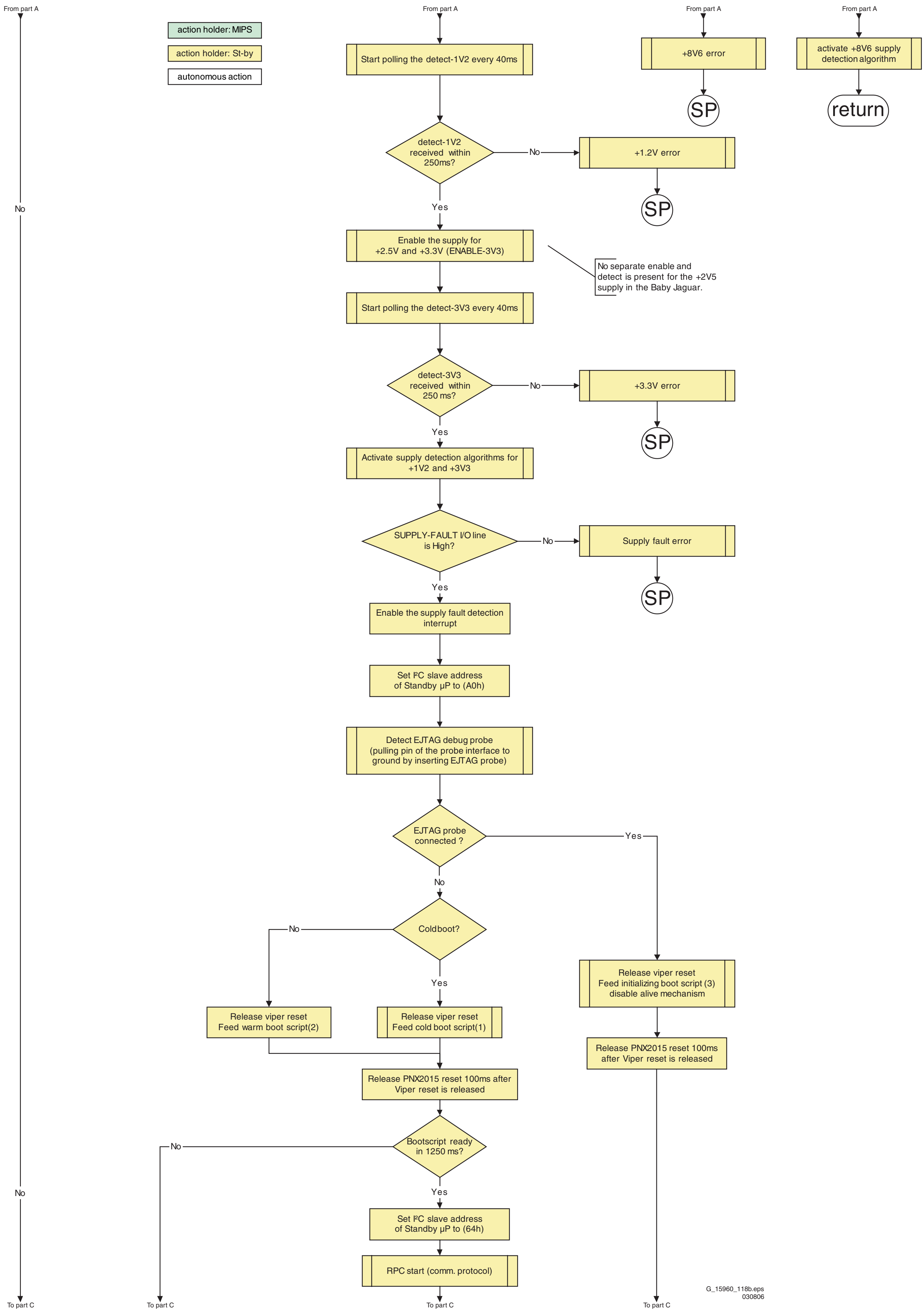
From part A
action holder: MIPS
action holder: St-by
autonomous action
From part A
Start polling the detect-1V2 every 40ms
From part A
+8V6 error
SP
From part A
activate +8V6 supply detection algorithm
return
detect-1V2 received within 250ms?
No
+1.2V error
SP
No
Yes
Enable the supply for +2.5V and +3.3V (ENABLE-3V3)
No separate enable and detect is present for the +2V5 supply in the Baby Jaguar.
Start polling the detect-3V3 every 40ms
detect-3V3 received within 250 ms?
No
+3.3V error
SP
Yes
Activate supply detection algorithms for +1V2 and +3V3
SUPPLY-FAULT I/O line is High?
No
Supply fault error
SP
Yes
Enable the supply fault detection interrupt
Set I^2C slave address of Standby µP to (A0h)
Detect EJTAG debug probe (pulling pin of the probe interface to ground by inserting EJTAG probe)
EJTAG probe connected ?
Yes
No
Coldboot?
No
Release viper reset Feed initializing boot script (3) disable alive mechanism
Yes
Release viper reset Feed warm boot script(2)
Release viper reset Feed cold boot script(1)
Release PNX2015 reset 100ms after Viper reset is released
Release PNX2015 reset 100ms after Viper reset is released
Bootscript ready in 1250 ms?
No
No
Yes
Set I^2C slave address of Standby µP to (64h)
RPC start (comm. protocol)
G_15960_118b.eps 030806
To part C
To part C
To part C
To part C

Figure 5-7 “Off” to “Semi Standby” flowchart (part 2)

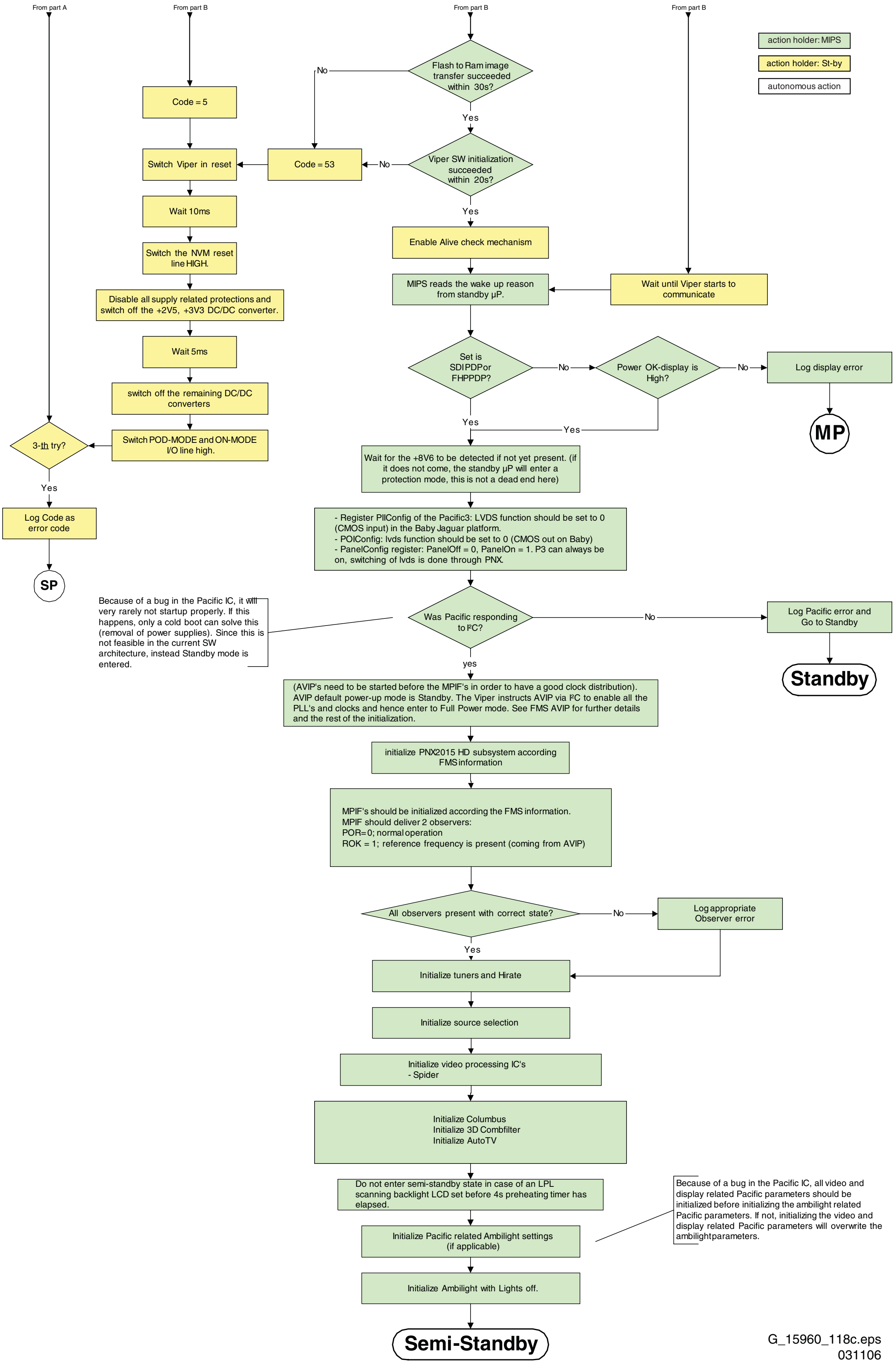
From part A
From part B
From part B
From part B
action holder: MIPS
action holder: St-by
autonomous action
Flash to Ram image transfer succeeded within 30s?
No
Yes
Code = 5
Switch Viper in reset
Code = 53
No
Viper SW initialization succeeded within 20s?
Yes
Wait 10ms
Enable Alive check mechanism
Switch the NVM reset line HIGH.
MIPS reads the wake up reason from standby µP.
Wait until Viper starts to communicate
Disable all supply related protections and switch off the +2V5, +3V3 DC/DC converter.
Wait 5ms
Set is SDI PDP or FHP PDP?
No
Power OK-display is High?
No
Log display error
switch off the remaining DC/DC converters
Yes
Yes
MP
3-th try?
Switch POD-MODE and ON-MODE I/O line high.
Wait for the +8V6 to be detected if not yet present. (if it does not come, the standby µP will enter a protection mode, this is not a dead end here)
Yes
Log Code as error code
- Register PllConfig of the Pacific3: LVDS function should be set to 0 (CMOS input) in the Baby Jaguar platform.
- POIConfig: lvds function should be set to 0 (CMOS out on Baby)
- PanelConfig register: PanelOff = 0, PanelOn = 1. P3 can always be on, switching of lvds is done through PNX.
SP
Because of a bug in the Pacific IC, it will very rarely not startup properly. If this happens, only a cold boot can solve this (removal of power supplies). Since this is not feasible in the current SW architecture, instead Standby mode is entered.
Was Pacific responding to I²C?
No
Log Pacific error and Go to Standby
yes
Standby
(AVIP's need to be started before the MPIF's in order to have a good clock distribution). AVIP default power-up mode is Standby. The Viper instructs AVIP via I²C to enable all the PLL's and clocks and hence enter to Full Power mode. See FMS AVIP for further details and the rest of the initialization.
initialize PNX2015 HD subsystem according FMS information
MPIF's should be initialized according the FMS information.
MPIF should deliver 2 observers:
POR=0; normal operation
ROK = 1; reference frequency is present (coming from AVIP)
All observers present with correct state?
No
Log appropriate Observer error
Yes
Initialize tuners and Hirate
Initialize source selection
Initialize video processing IC's
- Spider
Initialize Columbus
Initialize 3D Combfilter
Initialize AutoTV
Do not enter semi-standby state in case of an LPL scanning backlight LCD set before 4s preheating timer has elapsed.
Because of a bug in the Pacific IC, all video and display related Pacific parameters should be initialized before initializing the ambilight related Pacific parameters. If not, initializing the video and display related Pacific parameters will overwrite the ambilight parameters.
Initialize Pacific related Ambilight settings (if applicable)
Initialize Ambilight with Lights off.
Semi-Standby

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Figure 5-8 “Off” to “Semi Standby” flowchart (part 3)

LCD LPL 26" WX2-SLB2 / 32 "W01-SL06 / 37"WX1-SL04 / 42"WU02-SLB1 / 42" WX3-SLA1 / 42" WX2-SLA1

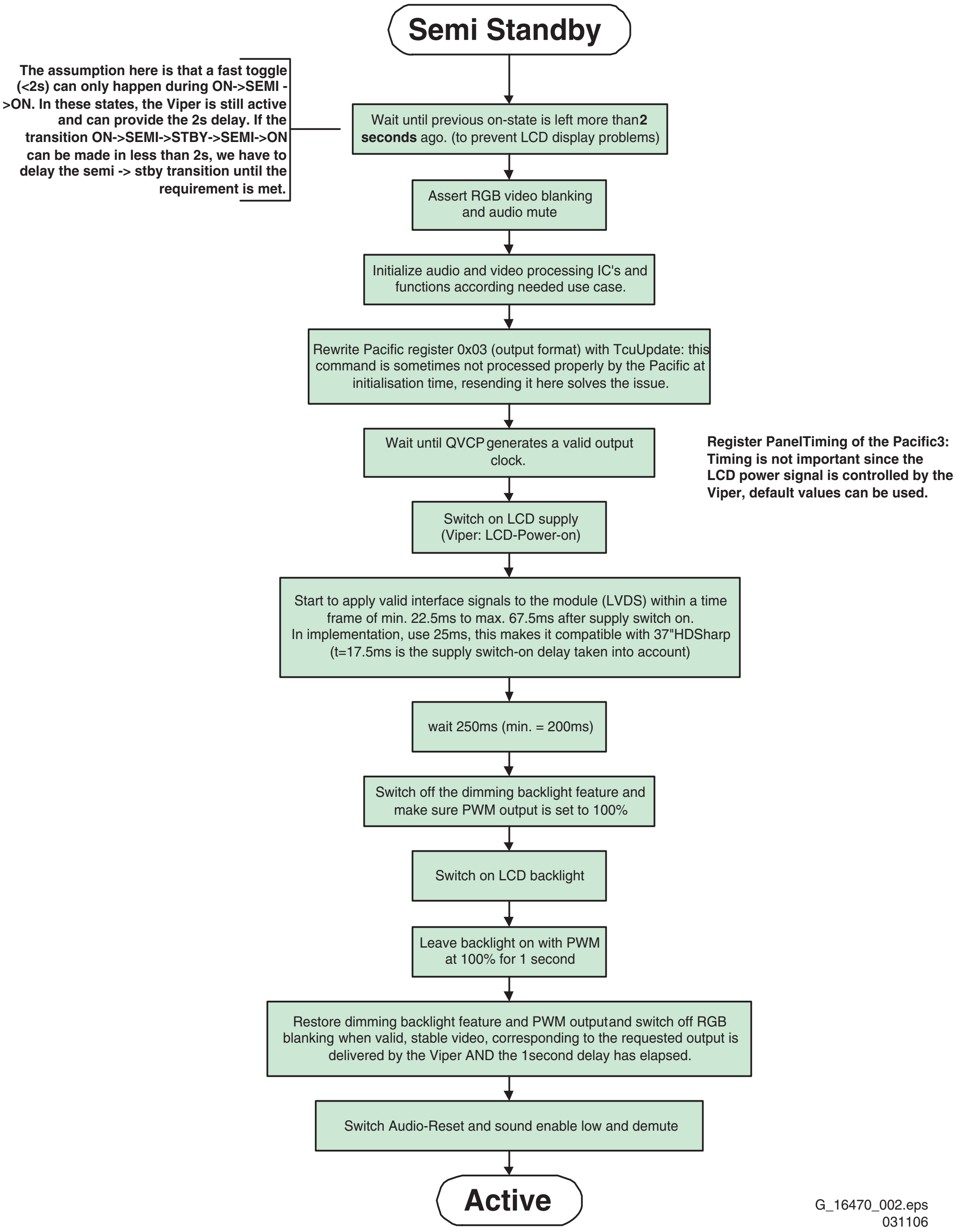
Constraints taken into account:

- Display may only be started when valid QVCP output clock can be delivered by the Viper.
- Between 5 and 50 ms after power is supplied, display should receive valid lvds clock.
- minimum wait time to switch on the lamp after power up is 200ms.
- To have a reliable operation of the backlight, the backlight should be driven with a PWM duty cycle of 100% during the first second. Only after this first second, the PWM may be set to the required output level (Note that the PWM output should be present before the backlight is switched on). To minimize the artefacts, the picture should only be unblanked after this first second.

🟩 action holder: MIPS

🟨 action holder: St-by

☐ autonomous action



Semi Standby

The assumption here is that a fast toggle (<2s) can only happen during ON->SEMI ->ON. In these states, the Viper is still active and can provide the 2s delay. If the transition ON->SEMI->STBY->SEMI->ON can be made in less than 2s, we have to delay the semi -> stby transition until the requirement is met.

Wait until previous on-state is left more than **2 seconds** ago. (to prevent LCD display problems)

Assert RGB video blanking and audio mute

Initialize audio and video processing IC's and functions according needed use case.

Rewrite Pacific register 0x03 (output format) with TcuUpdate: this command is sometimes not processed properly by the Pacific at initialisation time, resending it here solves the issue.

Wait until QVCP generates a valid output clock.

Register PanelTiming of the Pacific3: Timing is not important since the LCD power signal is controlled by the Viper, default values can be used.

Switch on LCD supply (Viper: LCD-Power-on)

Start to apply valid interface signals to the module (LVDS) within a time frame of min. 22.5ms to max. 67.5ms after supply switch on. In implementation, use 25ms, this makes it compatible with 37"HDSharp (t=17.5ms is the supply switch-on delay taken into account)

wait 250ms (min. = 200ms)

Switch off the dimming backlight feature and make sure PWM output is set to 100%

Switch on LCD backlight

Leave backlight on with PWM at 100% for 1 second

Restore dimming backlight feature and PWM outputand switch off RGB blanking when valid, stable video, corresponding to the requested output is delivered by the Viper AND the 1second delay has elapsed.

Switch Audio-Reset and sound enable low and demute

Active

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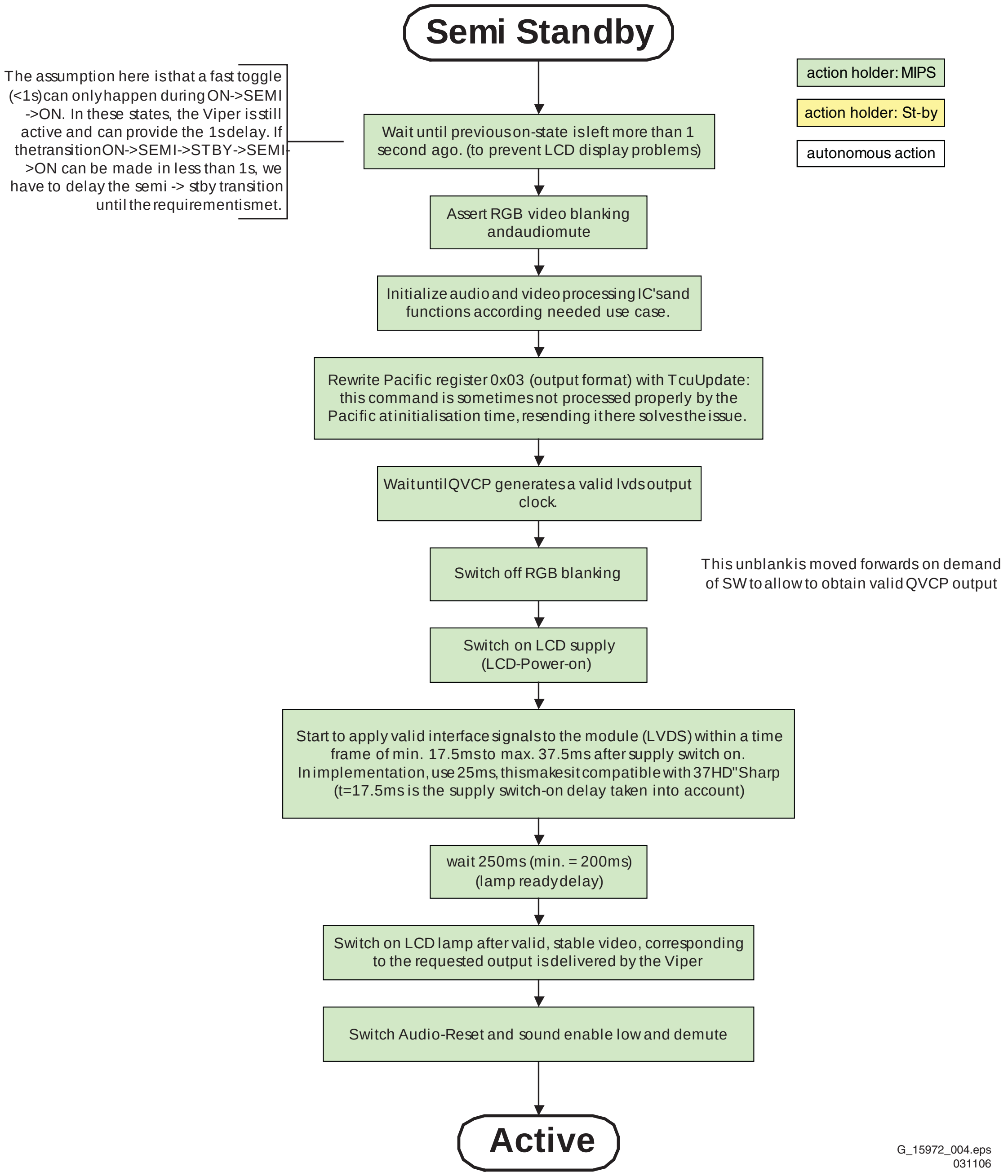
Figure 5-9 “Semi Standby” to “Active” flowchart 32” & 42” LCD displays

LCD SHARP 32"/37" 1366*768 ASV2.3

Constraints taken into account:
- Display may only be started when valid QVCP output clock can be delivered by the Viper.
- Between 0 and 20 ms after power is supplied, display should receive valid lvds clock.
- minimum wait time to switch on the lamp after power up is 200ms.
- RGB (on QVCP output) may be unblanked before valid output is available. Unblanking of the picture happens with the use of the 'lamp on', not with the RGB. By doing so, black level differences during startup are avoided.



The assumption here is that a fast toggle (<1s) can only happen during ON->SEMI ->ON. In these states, the Viper is still active and can provide the 1s delay. If the transition ON->SEMI->STBY->SEMI->ON can be made in less than 1s, we have to delay the semi -> stby transition until the requirement is met.

Wait until previous on-state is left more than 1 second ago. (to prevent LCD display problems)

Assert RGB video blanking and audio mute

Initialize audio and video processing IC's and functions according needed use case.

Rewrite Pacific register 0x03 (output format) with TcuUpdate: this command is sometimes not processed properly by the Pacific at initialisation time, resending it here solves the issue.

Wait until QVCP generates a valid lvds output clock.

Switch off RGB blanking

This unblank is moved forwards on demand of SW to allow to obtain valid QVCP output

Switch on LCD supply (LCD-Power-on)

Start to apply valid interface signals to the module (LVDS) within a time frame of min. 17.5ms to max. 37.5ms after supply switch on. In implementation, use 25ms, this makes it compatible with 37HD"Sharp (t=17.5ms is the supply switch-on delay taken into account)

wait 250ms (min. = 200ms) (lamp ready delay)

Switch on LCD lamp after valid, stable video, corresponding to the requested output is delivered by the Viper

Switch Audio-Reset and sound enable low and demute

Figure 5-10 “Semi Standby” to “Active” flowchart 37” SHARP display

LCD LPL [26"SLB2 / 32"SL06 / 37"SL04 / 42"SLB1 / 42"SLA1]
or LCD AUO [26"/32" XW02 V4/V5]

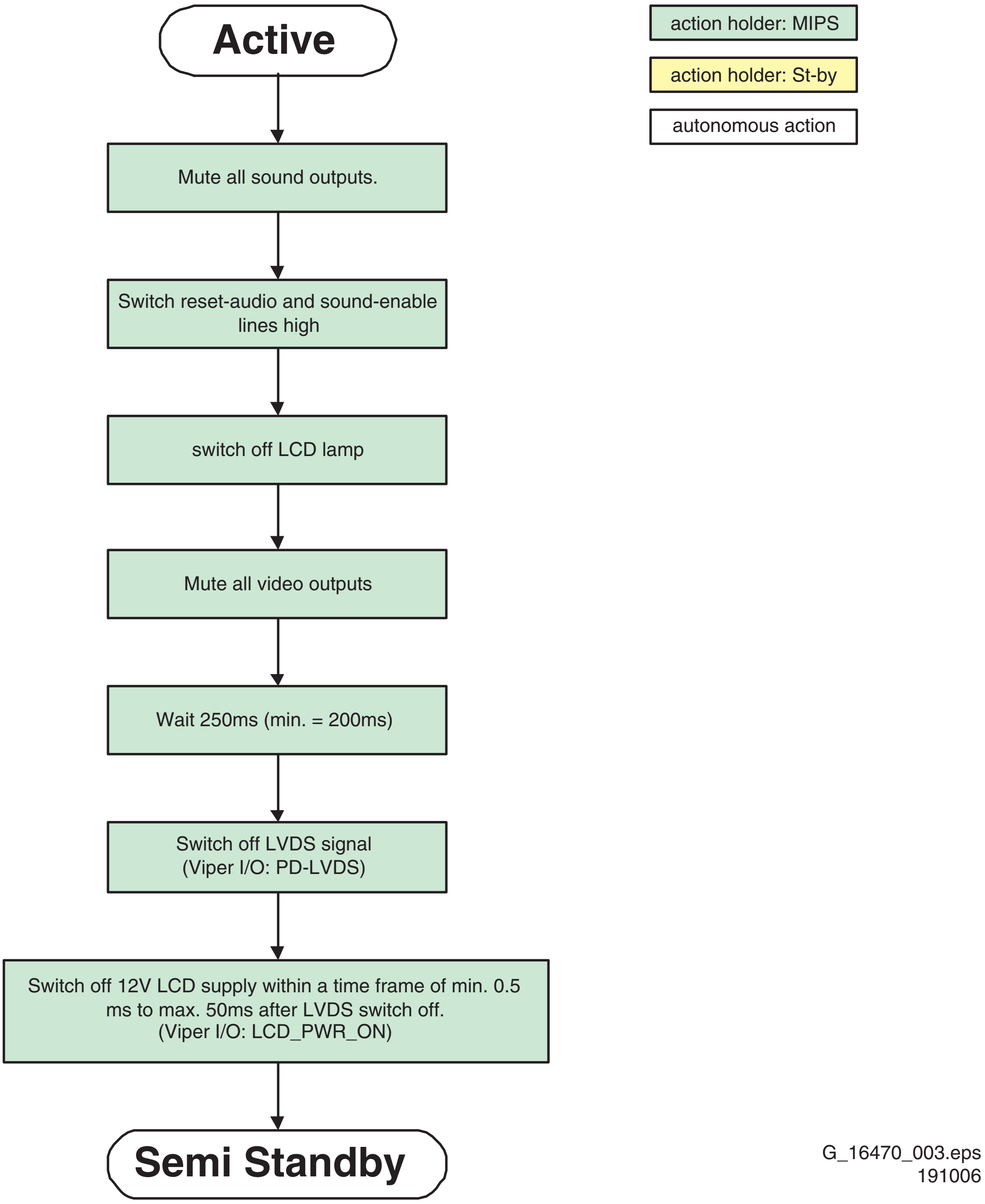

Active
action holder: MIPS
action holder: St-by
autonomous action
Mute all sound outputs.
Switch reset-audio and sound-enable lines high
switch off LCD lamp
Mute all video outputs
Wait 250ms (min. = 200ms)
Switch off LVDS signal (Viper I/O: PD-LVDS)
Switch off 12V LCD supply within a time frame of min. 0.5 ms to max. 50ms after LVDS switch off. (Viper I/O: LCD_PWR_ON)
Semi Standby
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Figure 5-11 “Active” to “Semi Standby” flowchart 32” & 42” LCD displays

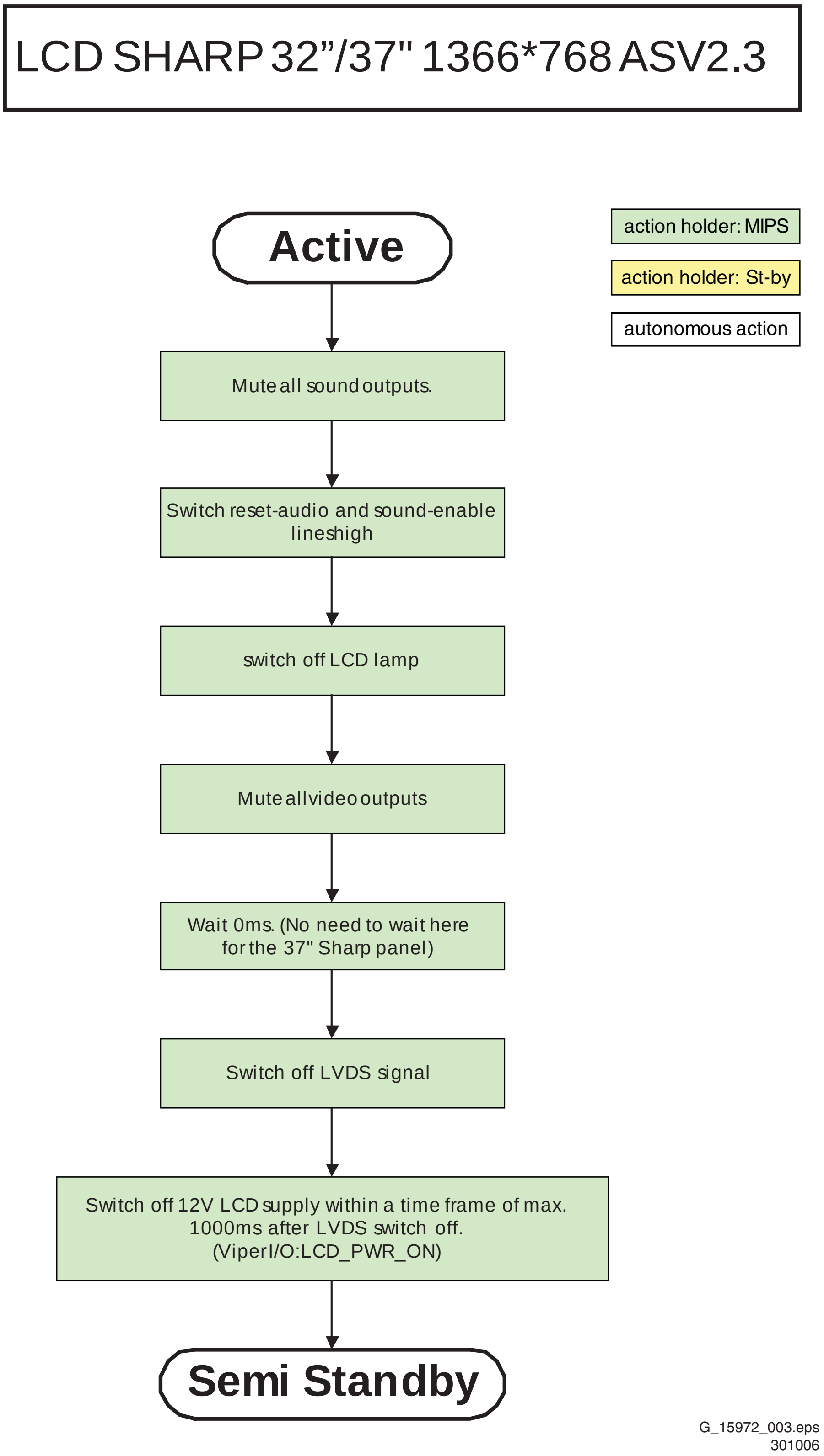
LCD SHARP 32"/37" 1366*768 ASV2.3
Active
action holder: MIPS
action holder: St-by
autonomous action
Mute all sound outputs.
Switch reset-audio and sound-enable lines high
switch off LCD lamp
Mute all video outputs
Wait 0ms. (No need to wait here for the 37" Sharp panel)
Switch off LVDS signal
Switch off 12V LCD supply within a time frame of max. 1000ms after LVDS switch off. (Viper I/O:LCD_PWR_ON)
Semi Standby
G_15972_003.eps
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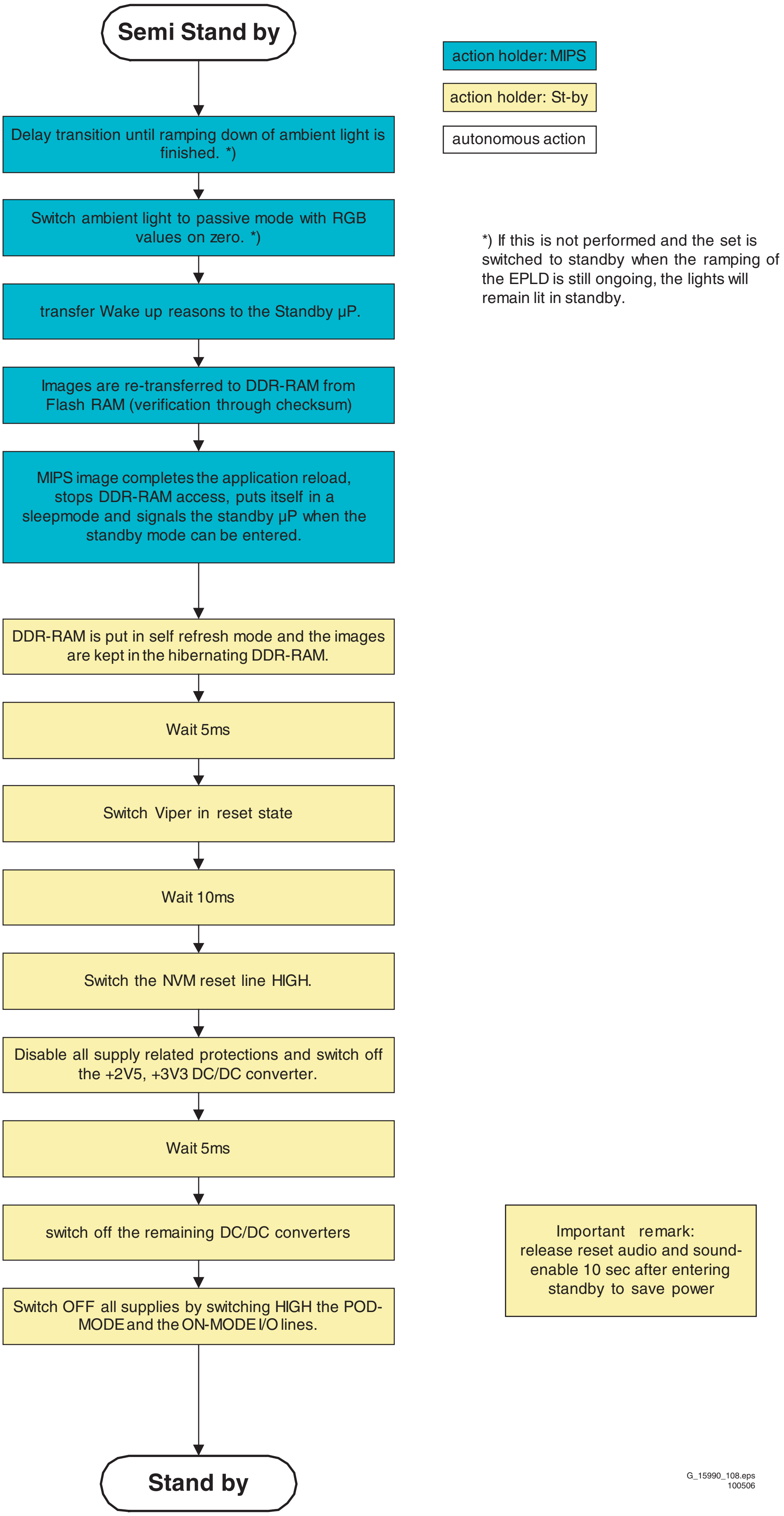
Figure 5-12 "Active" to "Semi Standby" flowchart 37" SHARP display


Semi Stand by
Delay transition until ramping down of ambient light is finished. *)
Switch ambient light to passive mode with RGB values on zero. *)
transfer Wake up reasons to the Standby µP.
Images are re-transferred to DDR-RAM from Flash RAM (verification through checksum)
MIPS image completes the application reload, stops DDR-RAM access, puts itself in a sleepmode and signals the standby µP when the standby mode can be entered.
DDR-RAM is put in self refresh mode and the images are kept in the hibernating DDR-RAM.
Wait 5ms
Switch Viper in reset state
Wait 10ms
Switch the NVM reset line HIGH.
Disable all supply related protections and switch off the +2V5, +3V3 DC/DC converter.
Wait 5ms
switch off the remaining DC/DC converters
Switch OFF all supplies by switching HIGH the POD-MODE and the ON-MODE I/O lines.
Stand by
action holder: MIPS
action holder: St-by
autonomous action
G_15990_108.eps
100506

*) If this is not performed and the set is switched to standby when the ramping of the EPLD is still ongoing, the lights will remain lit in standby.

Important remark: release reset audio and sound-enable 10 sec after entering standby to save power

Figure 5-13 "Semi Standby" to "Standby" flowchart

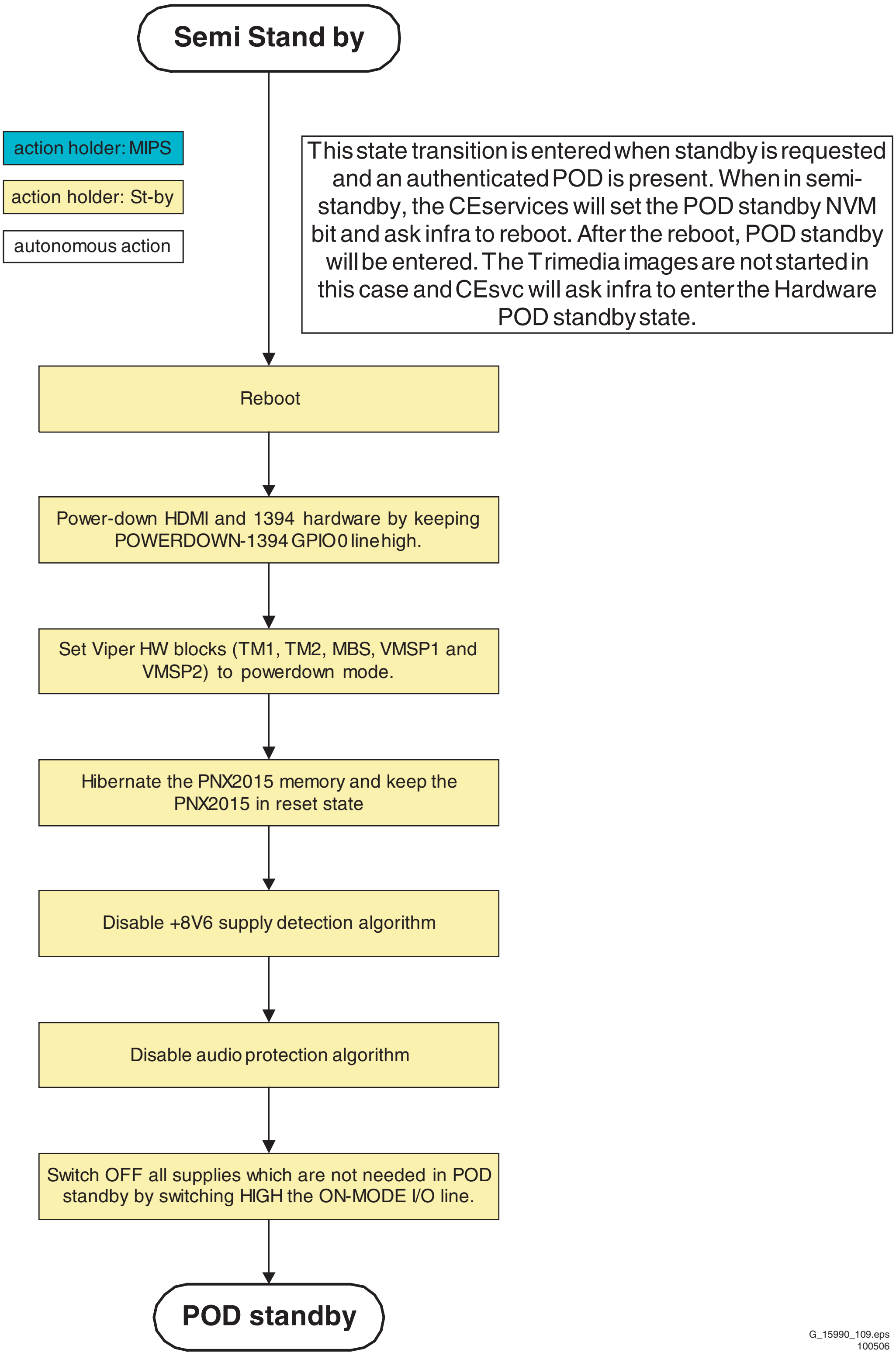

Semi Stand by
action holder: MIPS
action holder: St-by
autonomous action
This state transition is entered when standby is requested and an authenticated POD is present. When in semi-standby, the CEservices will set the POD standby NVM bit and ask infra to reboot. After the reboot, POD standby will be entered. The Trimedia images are not started in this case and CEsvc will ask infra to enter the Hardware POD standby state.
Reboot
Power-down HDMI and 1394 hardware by keeping POWERDOWN-1394 GPIO0 line high.
Set Viper HW blocks (TM1, TM2, MBS, VMSP1 and VMSP2) to powerdown mode.
Hibernate the PNX2015 memory and keep the PNX2015 in reset state
Disable +8V6 supply detection algorithm
Disable audio protection algorithm
Switch OFF all supplies which are not needed in POD standby by switching HIGH the ON-MODE I/O line.
POD standby

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Figure 5-14 “Semi Standby” to “POD Standby” flowchart

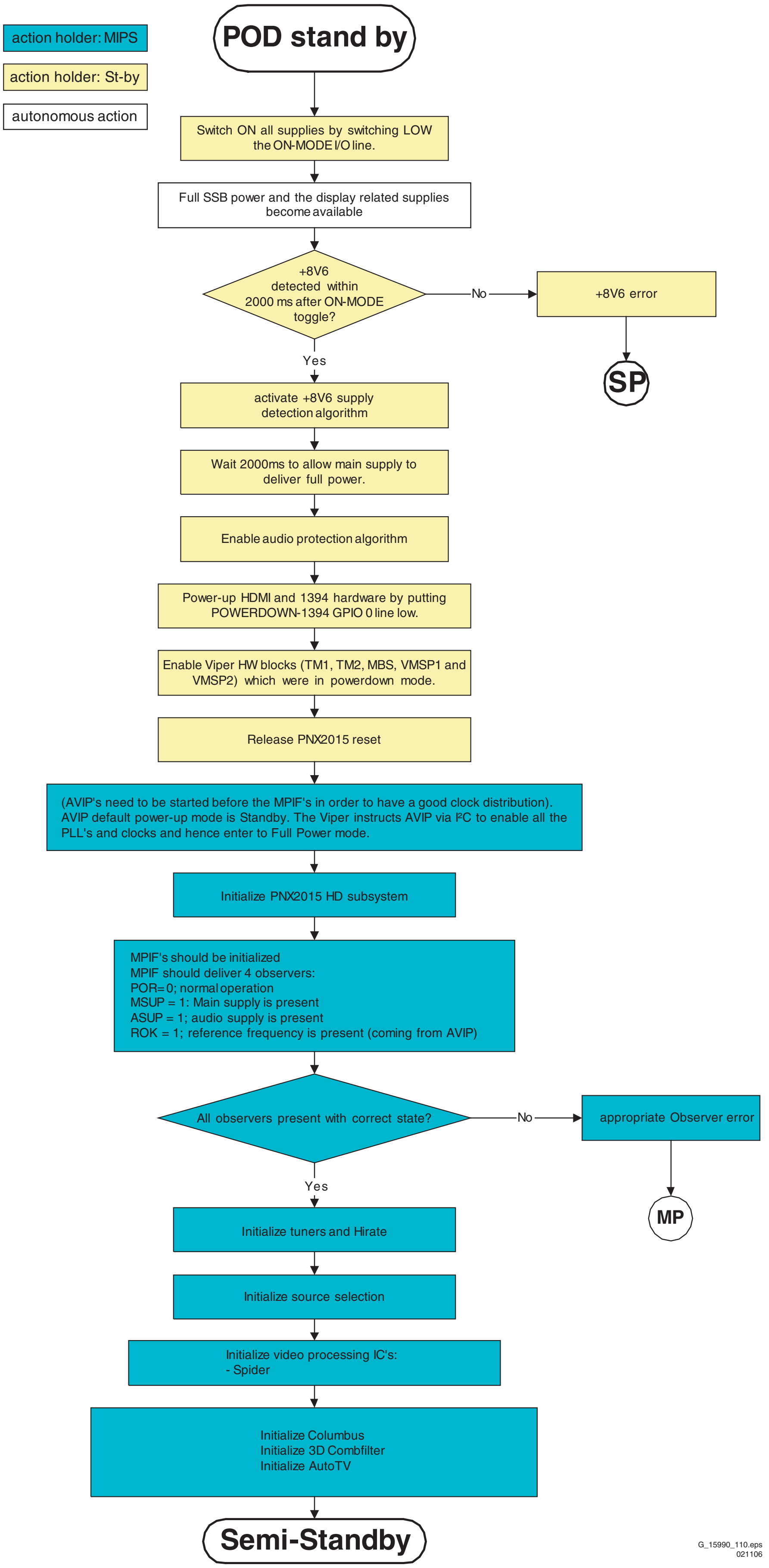
action holder: MIPS
action holder: St-by
autonomous action
POD stand by
Switch ON all supplies by switching LOW the ON-MODE I/O line.
Full SSB power and the display related supplies become available
+8V6 detected within 2000 ms after ON-MODE toggle?
No
+8V6 error
SP
Yes
activate +8V6 supply detection algorithm
Wait 2000ms to allow main supply to deliver full power.
Enable audio protection algorithm
Power-up HDMI and 1394 hardware by putting POWERDOWN-1394 GPIO 0 line low.
Enable Viper HW blocks (TM1, TM2, MBS, VMSP1 and VMSP2) which were in powerdown mode.
Release PNX2015 reset
(AVIP's need to be started before the MPIF's in order to have a good clock distribution). AVIP default power-up mode is Standby. The Viper instructs AVIP via I²C to enable all the PLL's and clocks and hence enter to Full Power mode.
Initialize PNX2015 HD subsystem
MPIF's should be initialized
MPIF should deliver 4 observers:
POR=0; normal operation
MSUP = 1: Main supply is present
ASUP = 1; audio supply is present
ROK = 1; reference frequency is present (coming from AVIP)
All observers present with correct state?
No
appropriate Observer error
MP
Yes
Initialize tuners and Hirate
Initialize source selection
Initialize video processing IC's:
- Spider
Initialize Columbus
Initialize 3D Combfilter
Initialize AutoTV
Semi-Standby
G_15990_110.eps
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Figure 5-15 “POD Standby” to “Semi Standby” flowchart

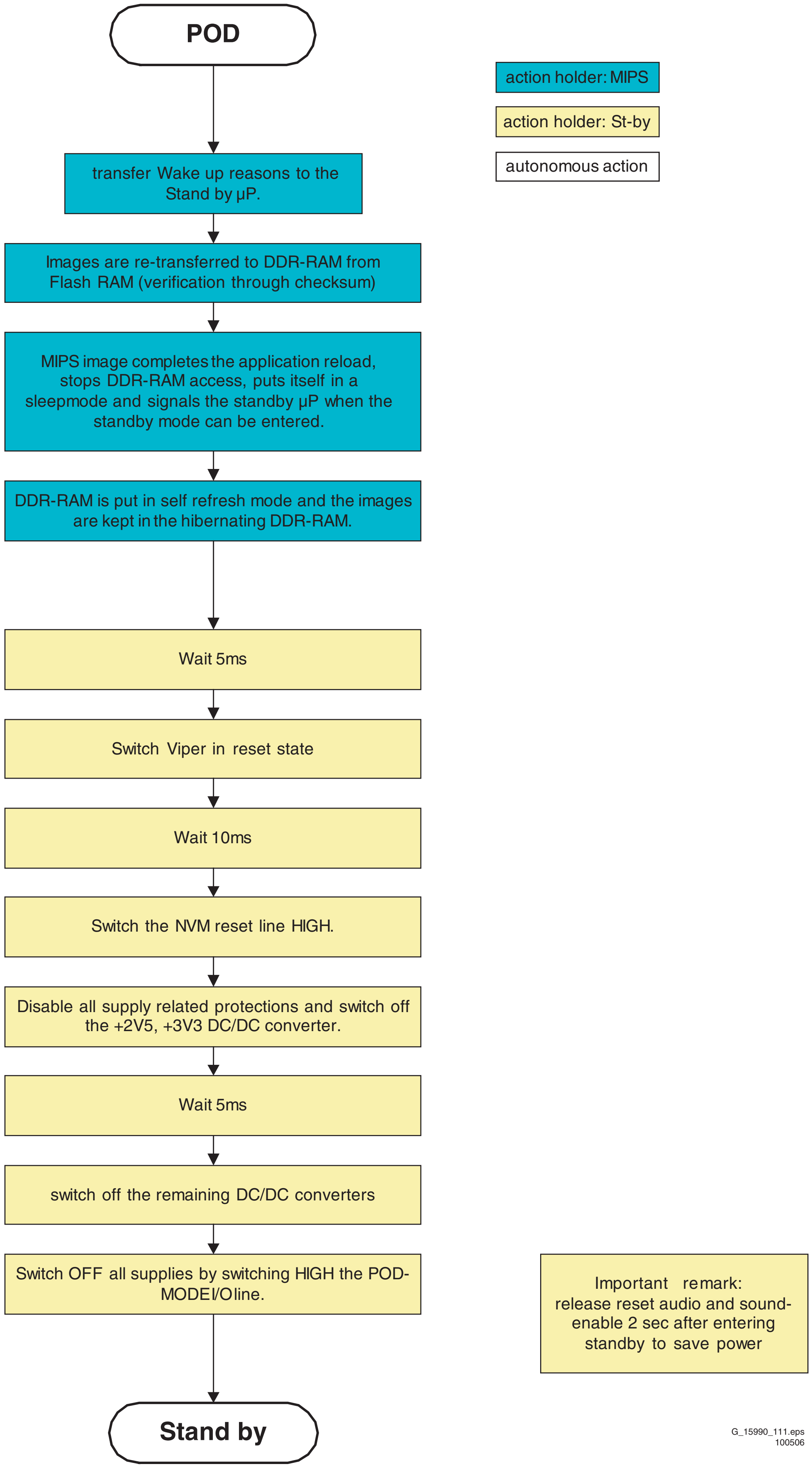

POD
action holder: MIPS
action holder: St-by
autonomous action
transfer Wake up reasons to the Stand by μP.
Images are re-transferred to DDR-RAM from Flash RAM (verification through checksum)
MIPS image completes the application reload, stops DDR-RAM access, puts itself in a sleepmode and signals the standby μP when the standby mode can be entered.
DDR-RAM is put in self refresh mode and the images are kept in the hibernating DDR-RAM.
Wait 5ms
Switch Viper in reset state
Wait 10ms
Switch the NVM reset line HIGH.
Disable all supply related protections and switch off the +2V5, +3V3 DC/DC converter.
Wait 5ms
switch off the remaining DC/DC converters
Switch OFF all supplies by switching HIGH the POD-MODEI/O line.
Important remark: release reset audio and sound-enable 2 sec after entering standby to save power
Stand by
G_15990_111.eps
100506

Figure 5-16 “POD” to “Standby” flowchart

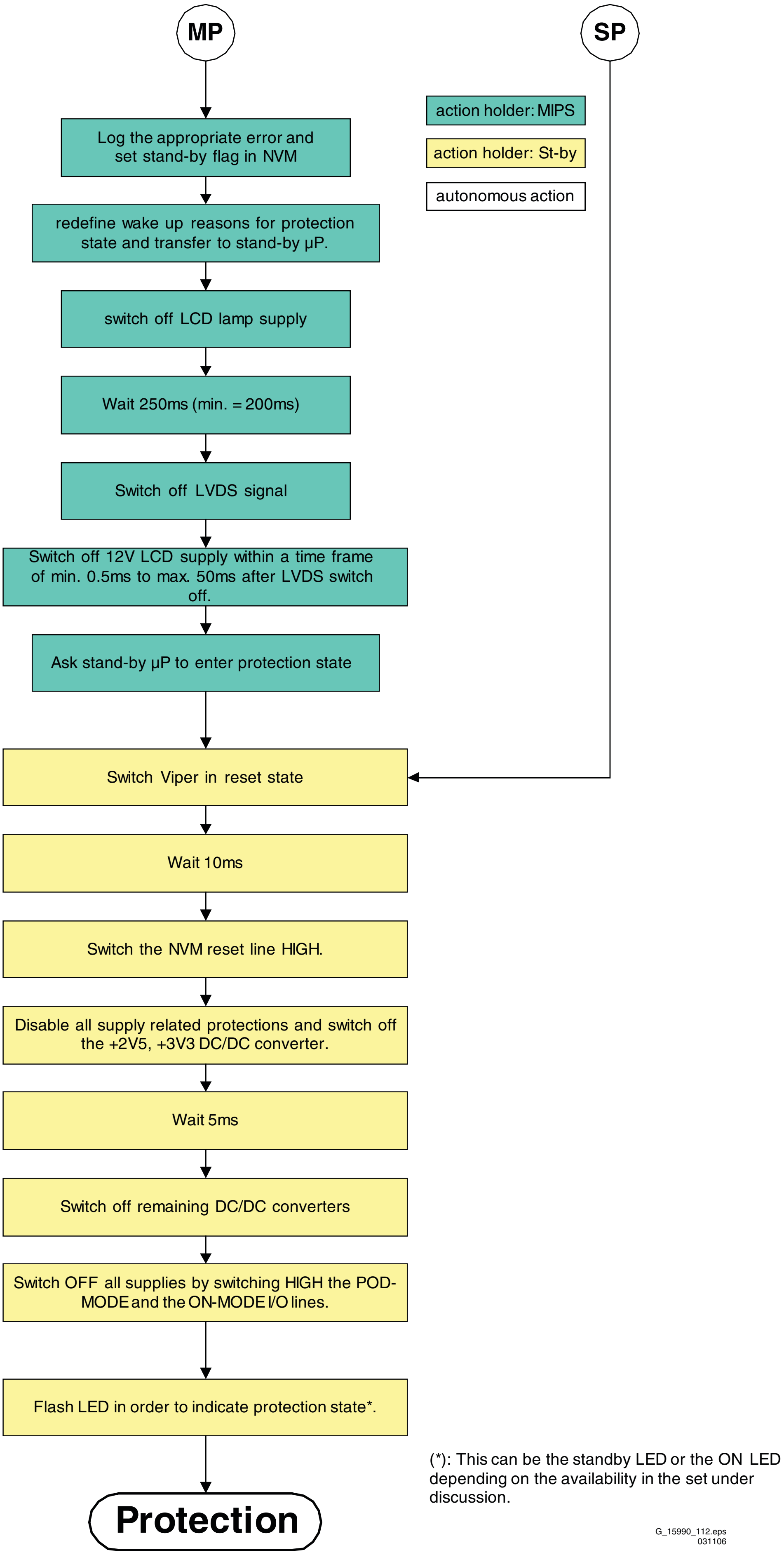

MP
SP
action holder: MIPS
action holder: St-by
autonomous action
Log the appropriate error and set stand-by flag in NVM
redefine wake up reasons for protection state and transfer to stand-by µP.
switch off LCD lamp supply
Wait 250ms (min. = 200ms)
Switch off LVDS signal
Switch off 12V LCD supply within a time frame of min. 0.5ms to max. 50ms after LVDS switch off.
Ask stand-by µP to enter protection state
Switch Viper in reset state
Wait 10ms
Switch the NVM reset line HIGH.
Disable all supply related protections and switch off the +2V5, +3V3 DC/DC converter.
Wait 5ms
Switch off remaining DC/DC converters
Switch OFF all supplies by switching HIGH the POD-MODE and the ON-MODE I/O lines.
Flash LED in order to indicate protection state*.
Protection
(*): This can be the standby LED or the ON LED depending on the availability in the set under discussion.
G_15990_112.eps
031106

Figure 5-17 "Protection" flowchart

5.4 Service Tools

5.4.1 ComPair

Introduction

ComPair (Computer Aided Repair) is a service tool for Philips Consumer Electronics products. ComPair is a further development on the European DST (service remote control), which allows faster and more accurate diagnostics. ComPair has three big advantages:

1. ComPair helps you to quickly get an understanding on how to repair the chassis in a short time by guiding you systematically through the repair procedures.
2. ComPair allows very detailed diagnostics (on I^{2}C level) and is therefore capable of accurately indicating problem areas. You do not have to know anything about I^{2}C commands yourself because ComPair takes care of this.
3. ComPair speeds up the repair time since it can automatically communicate with the chassis (when the microprocessor is working) and all repair information is directly available. When ComPair is installed together with the Force/SearchMan electronic manual of the defective chassis, schematics and PWBs are only a mouse click away.

Specifications

ComPair consists of a Windows based fault finding program and an interface box between PC and the (defective) product. The ComPair interface box is connected to the PC via a serial (or RS-232) cable.
For this chassis, the ComPair interface box and the TV communicate via a bi-directional service cable via the service connector(s).

The ComPair fault finding program is able to determine the problem of the defective television. ComPair can gather diagnostic information in two ways:

- Automatically (by communicating with the television): ComPair can automatically read out the contents of the entire error buffer. Diagnosis is done on I^{2}C/UART level. ComPair can access the I^{2}C/UART bus of the television. ComPair can send and receive I^{2}C/UART commands to the microcontroller of the television. In this way, it is possible for ComPair to communicate (read and write) to devices on the I^{2}C/UART buses of the TV-set.
- Manually (by asking questions to you): Automatic diagnosis is only possible if the microcontroller of the television is working correctly and only to a certain extent. When this is not the case, ComPair will guide you through the fault finding tree by asking you questions *(e.g. Does the screen give a picture? Click on the correct answer: YES / NO)* and showing you examples *(e.g. Measure test-point I7 and click on the correct oscillogram you see on the oscilloscope)*. You can answer by clicking on a link *(e.g. text or a waveform picture)* that will bring you to the next step in the fault finding process.

By a combination of automatic diagnostics and an interactive question / answer procedure, ComPair will enable you to find most problems in a fast and effective way.

How to Connect

This is described in the chassis fault finding database in ComPair.

Caution: It is compulsory to connect the TV to the PC as shown in the picture below (with the ComPair interface in between), as the ComPair interface acts as a level shifter. If one connects the TV directly to the PC (via UART), ICs will be blown!

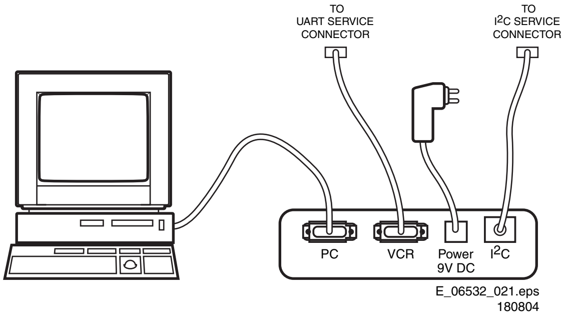


Figure 5-18 ComPair interface connection

How to Order

ComPair order codes (EU/AP/LATAM):

- Starter kit ComPair32 software and ComPair interface (excl. transformer): 3122 785 90450.
- ComPair interface (excl. transformer): 3122 785 90520.
- ComPair32 CD (update): 3122 785 60140.
- Transformer (non-UK): 4822 727 21632.
- Transformer (UK): 4822 727 21633.
- ComPair interface cable: 3122 785 90004.
- ComPair interface extension cable: 3139 131 03791.
- ComPair UART interface cable: 3122 785 90630.

Note: If you encounter any problems, contact your local support desk.

5.4.2 LVDS Tool

Introduction

This service tool (also called “ComPair Assistant 1“) may help you to identify, in case the TV does not show any picture, whether the Small Signal Board (SSB) **or** the display of a Flat TV is defective.
Furthermore it is possible to program EPLDs with this tool (Byte blaster). Read the user manual for an explanation of this feature.

Since 2004, the LVDS output connectors in our Flat TV models are standardised (with some exceptions). With the two delivered LVDS interface cables (31p and 20p) you can cover most chassis (in special cases, an extra cable will be offered).

When operating, the tool will show a small (scaled) picture on a VGA monitor. Due to a limited memory capacity, it is not possible to increase the size when processing high-resolution LVDS signals (> 1280x960). Below this resolution, or when a DVI monitor is used, the displayed picture will be full size.

Generally this tool is intended to determine if the SSB is working or not. Thus to determine if LVDS, RGB, and sync signals are okay.

How to Connect

Connections are explained in the user manual, which is packed with the tool.

Note: To use the LVDS tool, you must have ComPair release 2004-1 (or later) on your PC (engine version >= 2.2.05).
For every TV type number and screen size, one must choose the proper settings via ComPair. The ComPair file will be updated regularly with new introduced chassis information.

How to Order

- LVDS tool (incl. two LVDS cables: 31p and 20p):
  3122 785 90671.
- LVDS tool Service Manual:
  3122 785 00810.

- LVDS cable 31p/FI -> 31p/FI (for JL2.1 chassis): 3122 785 90861.
- LVDS cable 30p/DF -> 31p/FI (for LC4.3 chassis): 3122 785 90821.
- LVDS cable 41p/FI -> 31p/FI (dual -> single LVDS): 3122 785 90831.
- LVDS cable 20p/DF -> 20p/DF (standard with tool): 3122 785 90731.
- LVDS cable 31p/FI -> 31p/FI (standard with tool): 3122 785 90662.
- LVDS cable 20p/DF -> 20p/DF (for LC4.1 chassis): 3122 785 90851.

5.5 Error Codes

5.5.1 Introduction

The error code buffer contains all detected errors since the last time the buffer was erased. The buffer is written from left to right, new errors are logged at the left side, and all other errors shift one position to the right.
When an error occurs, it is added to the list of errors, provided the list is not full. When an error occurs and the error buffer is full, then the new error is not added, and the error buffer stays intact (history is maintained), except when the error is a protection error.
To prevent that an occasional error stays in the list forever, the error is removed from the list after more than 50 hrs. of operation.
When multiple errors occur (errors occurred within a short time span), there is a high probability that there is some relation between them.

Basically there are three kinds of errors:

- **Errors detected by the Standby Processor.** These errors will always lead to protection and an automatic start of the blinking LED for the concerned error (see paragraph “The Blinking LED Procedure”). In these cases SDM can be used to start up (see chapter “Stepwise Start-up”). Note that it can take up to 90 seconds before the TV goes to protection and starts blinking the error (e.g. error 53)
- **Errors detected by VIPER that lead to protection.** In this case the TV will go to protection and the front LED should also blink the concerned error. Depending on the software version it is possible that this mechanism does not work. See also paragraph “Error Codes” -> “Error Buffer” -> “Extra Info”.
- **Errors detected by VIPER that do not lead to protection.** In this case the error will be logged into the error buffer and can be read out via ComPair, via blinking LED method, or in case you have picture, via SAM.

5.5.2 How to Read the Error Buffer

Use one of the following methods:

- On screen via the SAM (only if you have a picture). E.g.:
  - **00 00 00 00 00**: No errors detected
  - **06 00 00 00 00**: Error code 6 is the last and only detected error
  - **09 06 00 00 00**: Error code 6 was first detected and error code 9 is the last detected error
- Via the blinking LED procedure (when you have no picture). See next paragraph.
- Via ComPair.

5.5.3 How to Clear the Error Buffer

Use one of the following methods:

- By activation of the “RESET ERROR BUFFER” command in the SAM menu.
- With a normal RC, key in sequence “MUTE” followed by “062599” and “OK”.
- If the content of the error buffer has not changed for 50+ hours, it resets automatically.

5.5.4 Error Buffer

In case of non-intermittent faults, clear the error buffer before you begin the repair (**before** clearing the buffer, write down the content, as this history can give you significant information). This to ensure that old error codes are no longer present.
If possible, check the entire contents of the error buffer. In some situations, an error code is only the result of another error code and not the actual cause (e.g., a fault in the protection detection circuitry can also lead to a protection).
There are several mechanisms of error detection:

- Via error bits in the status registers of ICs.
- Via polling on I/O pins going to the standby processor.
- Via sensing of analogue values on the standby processor or the Viper.
- Via a “not acknowledge” of an I^{2}C communication

Take notice that some errors need more than 90 seconds before they start blinking. So in case of problems wait 2 minutes from start-up onwards, and then check if the front LED is blinking.

Table 5-2 Error code overview

Error	Description	Error/Prot	Detected by	Device	Defective module	Result
1	I^{2}C1	P/E	VIPER	/	I^{2}C1_blocked	Protection + Error blinking / Error logged
2	I^{2}C2	E	VIPER	/	I^{2}C2_blocked	Error logged
3	I^{2}C3	P	Stby µP	/	/	Protection + Error blinking
4	I^{2}C4	P	VIPER	/	I^{2}C4_blocked	Protection + Error blinking
5	VIPER does not boot	P	Stby µP	PNX8550	/	Protection + Error blinking
6	5V supply	P	Stby µP	/	/	Protection + Error blinking
7	8V6 supply	P	Stby µP	/	/	Protection + Error blinking
8	1.2V DC/DC	P	Stby µP	/	/	Protection + Error blinking
9	2.5V DC/DC	P	Stby µP	/	/	Protection + Error blinking
11	3.3V DC/DC	P	Stby µP	/	/	Protection + Error blinking
12	12V supply	P	Stby µP	/	/	Protection + Error blinking
14	Audio	P	Stby µP	/	/	Protection + Error blinking
18	MPIF1 ref. freq.	E	VIPER	PNX3000	IF I/O	Error logged
23	MPIF2 ref. freq.	E	VIPER	PNX3000	IF I/O 2	Error logged
25	Supply fault	P	Stby µP	n.a.	/	Protection + Error blinking
27	PNX2015 HD subsystem part	E	VIPER	/	/	see extra info
28	MOP	E	VIPER	/	/	see extra info
32	MPIF1	E	VIPER	PNX3000	Analog 1 front end 1	Error logged
33	MPIF2	E	VIPER	PNX3000	Analog 2 front end 2	Error logged
34	Tuner1	E	VIPER	/	Tuner 1	Error logged

Error	Description	Error/Prot	Detected by	Device	Defective module	Result
35	Tuner sub	E	VIPER	/	Tuner sub	Error logged
36	OFDM (channel decoder)	E	VIPER	TDA10046	/	Error logged
39	POD/Common Interface	E	VIPER	STV0701	/	Error logged
43	Hi Rate Front End	E	VIPER	TDA9975	HDMI	Error logged
44	NVM	P	Stby µP	/	/	see extra info
45	Columbus 1	E	VIPER	PNX2015	Comb filter	Error logged
46	Pacific 3	E	VIPER	/	/	TV to standby + Error logged
53	VIPER	P	Stby µP	PNX8550	/	Protection + Error blinking
63	Power OK	P	VIPER	/	/	Protection + Error blinking (see extra info)
64	Display	E	VIPER	/	/	Error logged

Extra Info

- **Rebooting.** When a TV is constantly rebooting due to internal problems, most of the time no errors will be logged or blinked. This rebooting can be recognised via a ComPair interface and Hyperterminal (for Hyperterminal settings, see paragraph “Standby software upgrade). You will see that the loggings which are generated by the main software keep continuing. In this case (rebooting) diagnose has to be done via ComPair.
- **Error 1 (I^{2}C bus 1 blocked).** Depending on the software version we can have two possibilities:
  - The TV goes into protection and the front LED will blink error 1. Now you can start up the TV via the SDM short-cut pins on the SSB. The TV will start up and ignores the error. Depending on the problem it is even possible that you have picture.
  - With this error, probably only the green LED lights up. The TV does **not** go into protection but error 1 will still be logged in the error buffer. In some cases you can have picture and sound and then you can check the error buffer. Otherwise use ComPair for further diagnosis (e.g. read out the NVM content).
- **Error 2 (I^{2}C bus blocked).** Due to hardware restriction (I2C bus 2 is the fast I2C bus) it will be impossible to start up the VIPER when I2C bus 2 is blocked. When this error occurs, the TV will not start (but probably you will see the green LED). Starting up the TV via the SDM short-cut pins will not work. So it will not be possible to read out error 2 via internal software (allthough it will be logged). Use ComPair for further diagnose (e.g. read out the NVM content).
- **Error 3 (I^{2}C bus 3 blocked).** There are only three devices on I^{2}C bus 3: VIPER, Standby Processor, and NVM. The Standby Processor is the detection device of this error, so this error will only occur if the VIPER or the NVM is blocking the bus. This error will also blink when the NVM gives no acknowledge on the I^{2}C bus. Note that if the 12 V supply is missing, the DC/DC supply on the SSB will not work. Therefore the VIPER will not get supplies and could block I^{2}C bus 3. So, a missing 12 V can also lead to an error 3.
- **Error 4 (I^{2}C bus 4 blocked).** In this chassis, error 4 is no longer a protection error.
- **Error 5 (VIPER does not boot).** This error will point to a severe hardware problem around the VIPER (supplies not OK, VIPER completely dead, I^{2}C link between VIPER and Standby Processor broken, etc...).
- **Error 7 (8V6 error).** In case of a TV with SDI display you will see error 7 blink in case of an audio protection. So except a problem with the 8V6 itself it is also possible that there is something wrong with the audio part. See also paragraph "Hardware Protections" for this.
- **Error 14 (Audio protection).** The detection is done on the audio board itself. Several items are monitored: overvoltage, overcurrent, DC level on the speakers and the audio supply voltages. If one of these items fails, the audioprotection will switch off the main supply. All supplies will drop, the standby processor “thinks” there is a mains dip, and will reboot. At the beginning of the boot process, the audio-protection line is monitored : if this line is “active”, the set will go to protection and will blink error 14.
- **Error 27 (PNX2015 HD subsystem part).** Diagnosing this error will not be possible via the normal errorcodes. In case this device can not communicate with the Viper via I^{2}C, it will not be possible to initialise the tunnelbus. Hence the software will not be able to start up, and will re-boot constantly. Diagnosing these problems will only be possible via ComPair. In theory it is possible that the error is logged in the NVM (that’s why this error is still mentioned here).
- **Error 28 (MOP/EPLD)** Due to the detection mechanism of the MOP error it is possible that the actual logging of the error can take up to 4 minutes (worst case). So if you want to be sure there is a MOP error, reset the error buffer, restart the TV and wait for 4 minutes before checking the error buffer again. The detection mechanism for this error has been changed to avoid false MOP errors.
- **Error 44 (NVM).** This error will probably never occur because it is masked by error 3 (I^{2}C bus 3). The detection mechanism for error 3 checks on an I^{2}C acknowledge of the NVM. If NVM gives no acknowledge, the standby software assumes that the bus is blocked, the TV goes to protection and error 3 will be blinking..
- **Error 46 (Pacific 3).** When this errors occurs the TV will go to standby. The reason for this is, when there is an occasional boot problem of the Pacific, it will look like the TV has started up in standby mode, and the customer can switch it on again. When there is an actual problem with or around the Pacific the TV will go to standby every time you try to start up. So this behaviour is an indication of a Pacific problem.
- **Error 53.** This error will indicate that the VIPER has started to function (by reading his boot script, if this would have failed, error 5 would blink) but initialization was never completed because of hardware peripheral problems (NAND flash, ...) or software initialization problems. Possible cause could be that there is no valid software loaded (try to upgrade to the latest main software version). Note that it takes 90 seconds before the TV goes to protection in this case.
- **Error 63 (POWER OK).** When this error occurs, it means that the POWER-OK line did not became “high”. This error is only applicable for TV’s with a SDI display, a FHP display or a Sharp full HD display. Depending on the software version it is possible that the detection mechanism of this error does not function and that the set keeps rebooting.
- **Error 64 (Display error).** When this error occurs it means that there is a problem with the I^{2}C communication towards the display. Although several display types communicate via I^{2}C, this error will only work for sets with a FHP display.

5.6 The Blinking LED Procedure

5.6.1 Introduction

The blinking LED procedure can be split up into two situations:
- Blinking LED procedure in case of a protection detected by the standby processor. In this case the error is automatically blinked. This will be only one error, namely the one that is causing the protection. Therefore, you do not have to do anything special, just read out the blinks. A long blink indicates the decimal digit, a short blink indicates the units.
- Blinking LED procedure in the "on" state. Via this procedure, you can make the contents of the error buffer visible via the front LED. This is especially useful for fault finding, when there is no picture.

When the blinking LED procedure is activated in the "on" state, the front LED will show (blink) the contents of the error-buffer. Error-codes > 10 are shown as follows:
1. "n" long blinks (where "n" = 1 - 9) indicating decimal digit,
2. A pause of 1.5 s,
3. "n" short blinks (where "n"= 1 - 9),
4. A pause of approx. 3 s.
5. When all the error-codes are displayed, the sequence finishes with a LED blink of 3 s,
6. The sequence starts again.

Example: Error 12 8 6 0 0.
After activation of the SDM, the front LED will show:
1. 1 long blink of 750 ms (which is an indication of the decimal digit) followed by a pause of 1.5 s,
2. 2 short blinks of 250 ms followed by a pause of 3 s,
3. 8 short blinks followed by a pause of 3 s,
4. 6 short blinks followed by a pause of 3 s,
5. 1 long blink of 3 s to finish the sequence,
6. The sequence starts again.

5.6.2 How to Activate

Use one of the following methods:
- **Activate the SDM.** The blinking front LED will show the entire contents of the error buffer (this works in "normal operation" mode).
- **Transmit the commands "MUTE" - "062500" - "OK" with a normal RC.** The complete error buffer is shown. Take notice that it takes some seconds before the blinking LED starts.
- **Transmit the commands "MUTE" - "06250x" - "OK" with a normal RC** (where "x" is a number between 1 and 5). When x= 1 the last detected error is shown, x= 2 the second last error, etc.... Take notice that it takes some seconds before the blinking LED starts.

5.7 Protections

5.7.1 Software Protections

Most of the protections and errors use either the standby microprocessor or the VIPER controller as detection device. Since in these cases, checking of observers, polling of ADCs, filtering of input values are all heavily software based, these protections are referred to as software protections.
There are several types of software related protections, solving a variety of fault conditions:
- **Protections related to supplies:** check of the 12V, +5V, +8V6, +1.2V and +3.3V.
- **Protections related to breakdown of the safety check mechanism.** E.g. since a lot of protection detections are done by means of the VIPER, failing of the VIPER communication will have to initiate a protection mode since safety cannot be guaranteed any more.

Remark on the Supply Errors
The detection of a supply dip or supply loss during the normal playing of the set does not lead to a protection, but to a cold reboot of the set. If the supply is still missing after the reboot, the set will go to protection.

Protections during Start-up
During start-up, some voltages and IC observers are actively monitored to be able to optimise the start-up speed, and to assure good operation of all components. If these monitors do not respond in a defined way, this indicates a malfunction of the system and leads to a protection. As the observers are only used during start-up, they are described in the start-up flow in detail (see paragraph "Stepwise Start-up").

5.7.2 Hardware Protections

There are no real hardware protections in this chassis..
Although, in case of an audio problem, the audio protection circuit will switch off the main supply. The standby microprocessor will interprete this as a mains dip and will try to start up again.
In case of a set with SDI display this will probably lead to protection error 7 (8V6 error) and an internal error 11 (so it looks like an overvoltage protection of the SDI supply itself).
In other cases it will lead to error 14 (audio protection).

Repair Tips
- It is also possible that you have an audio DC protection because of an interruption in one or both speakers (the DC voltage that is still on the circuit cannot disappear through the speakers).

5.8 Fault Finding and Repair Tips

Read also paragraph "Error Codes" - "Extra Info".

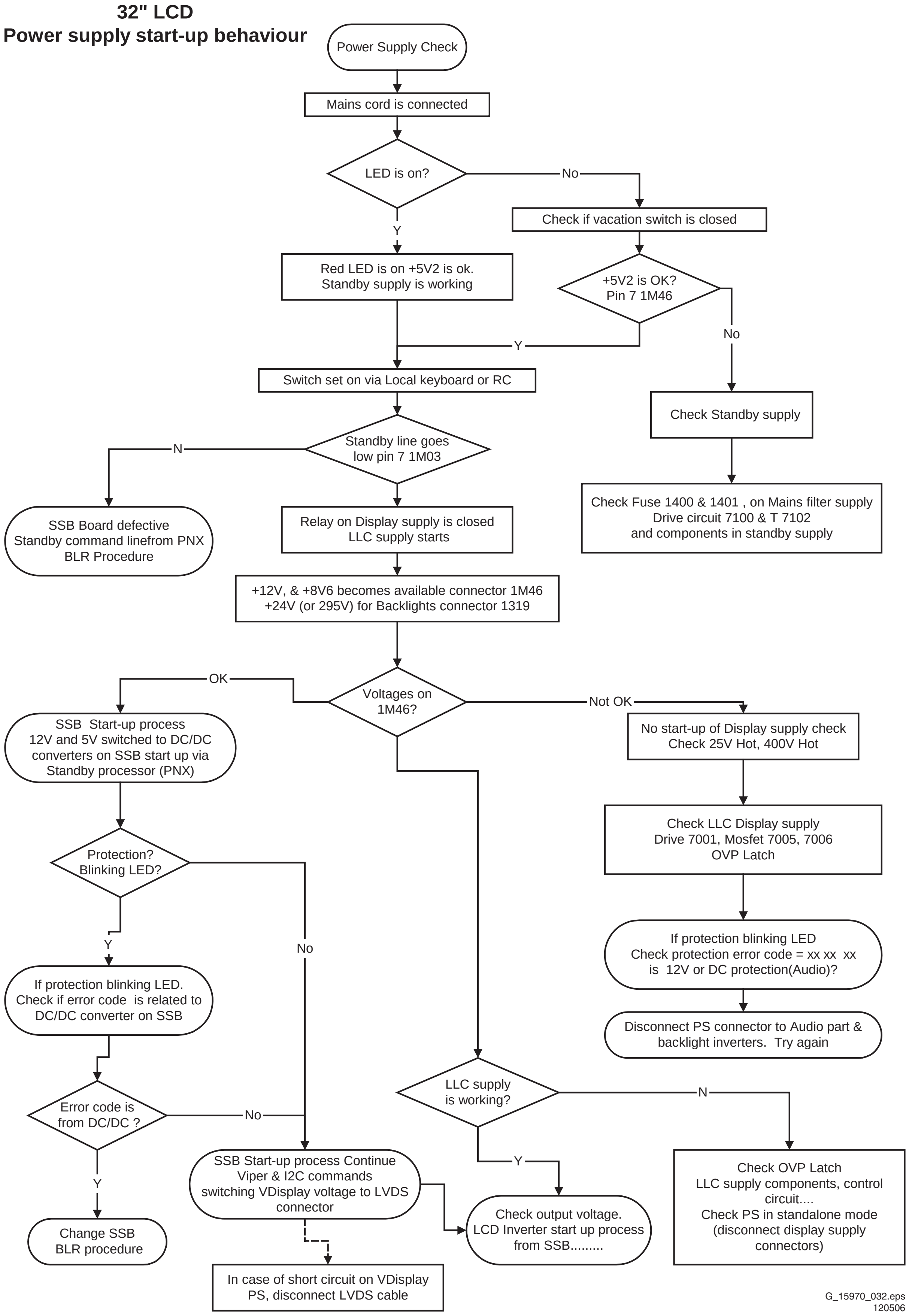

32" LCD
Power supply start-up behaviour
Power Supply Check
Mains cord is connected
LED is on?
No
Y
Check if vacation switch is closed
Red LED is on +5V2 is ok.
Standby supply is working
+5V2 is OK?
Pin 7 1M46
No
Y
Switch set on via Local keyboard or RC
Check Standby supply
Standby line goes low pin 7 1M03
N
SSB Board defective
Standby command linefrom PNX
BLR Procedure
Relay on Display supply is closed
LLC supply starts
Check Fuse 1400 & 1401 , on Mains filter supply
Drive circuit 7100 & T 7102
and components in standby supply
+12V, & +8V6 becomes available connector 1M46
+24V (or 295V) for Backlights connector 1319
Voltages on 1M46?
OK
Not OK
SSB Start-up process
12V and 5V switched to DC/DC converters on SSB start up via Standby processor (PNX)
No start-up of Display supply check
Check 25V Hot, 400V Hot
Check LLC Display supply
Drive 7001, Mosfet 7005, 7006
OVP Latch
Protection?
Blinking LED?
Y
No
If protection blinking LED
Check protection error code = xx xx xx
is 12V or DC protection(Audio)?
If protection blinking LED.
Check if error code is related to DC/DC converter on SSB
Disconnect PS connector to Audio part & backlight inverters. Try again
LLC supply is working?
N
Error code is from DC/DC ?
No
Y
SSB Start-up process Continue
Viper & I2C commands
switching VDisplay voltage to LVDS connector
Y
Check OVP Latch
LLC supply components, control circuit....
Check PS in standalone mode
(disconnect display supply connectors)
Check output voltage.
LCD Inverter start up process
from SSB.........
Change SSB
BLR procedure
In case of short circuit on VDisplay PS, disconnect LVDS cable
G_15970_032.eps
120506

Figure 5-19 First line fault find tree 32” LCD

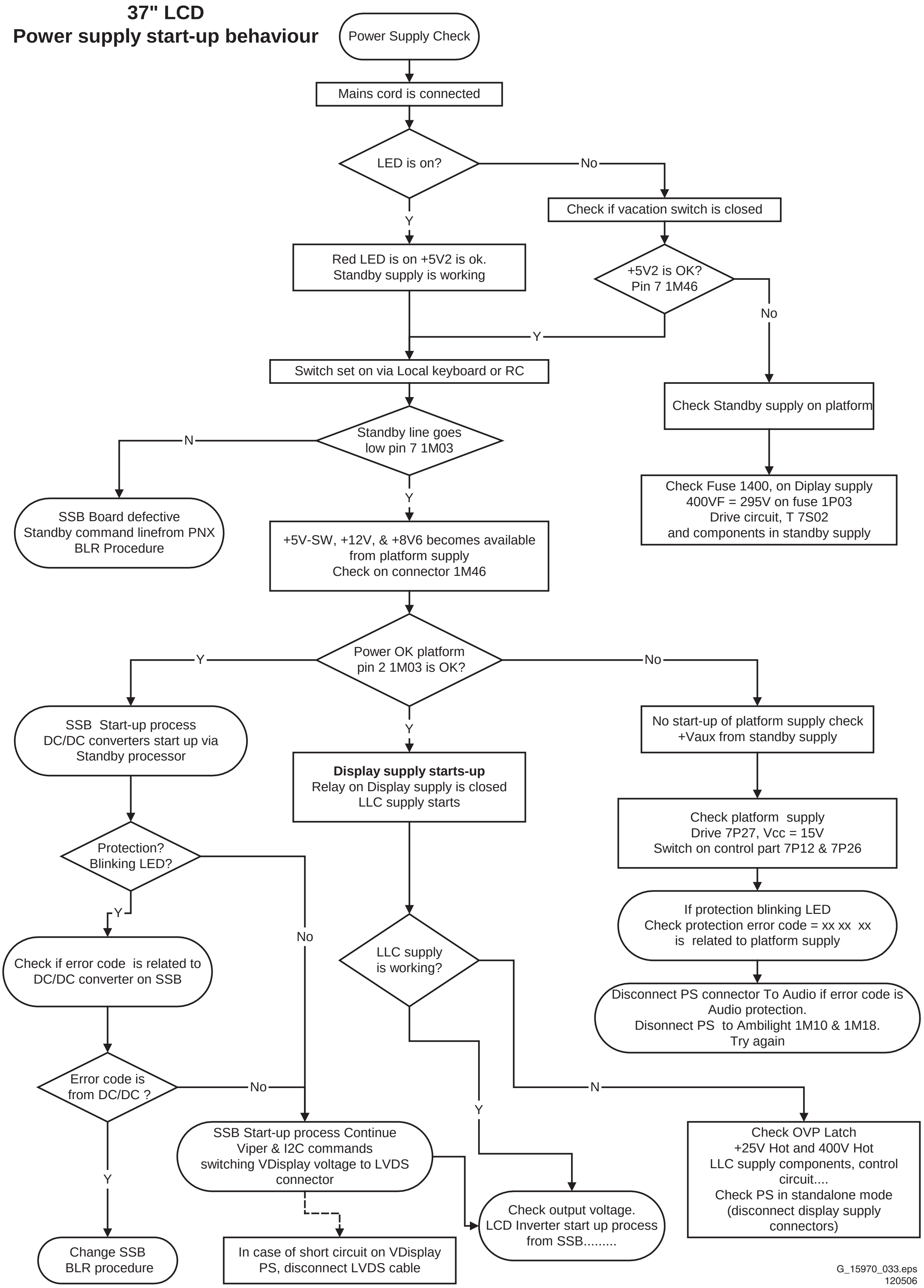

37" LCD
Power supply start-up behaviour
Power Supply Check
Mains cord is connected
LED is on?
No
Check if vacation switch is closed
Y
Red LED is on +5V2 is ok.
Standby supply is working
+5V2 is OK?
Pin 7 1M46
No
Y
Switch set on via Local keyboard or RC
Check Standby supply on platform
N
Standby line goes
low pin 7 1M03
Y
SSB Board defective
Standby command linefrom PNX
BLR Procedure
+5V-SW, +12V, & +8V6 becomes available
from platform supply
Check on connector 1M46
Check Fuse 1400, on Diplay supply
400VF = 295V on fuse 1P03
Drive circuit, T 7S02
and components in standby supply
Y
Power OK platform
pin 2 1M03 is OK?
No
Y
SSB Start-up process
DC/DC converters start up via
Standby processor
Display supply starts-up
Relay on Display supply is closed
LLC supply starts
No start-up of platform supply check
+Vaux from standby supply
Check platform supply
Drive 7P27, Vcc = 15V
Switch on control part 7P12 & 7P26
Protection?
Blinking LED?
Y
No
If protection blinking LED
Check protection error code = xx xx xx
is related to platform supply
Check if error code is related to
DC/DC converter on SSB
LLC supply
is working?
Disconnect PS connector To Audio if error code is
Audio protection.
Disonnect PS to Ambilight 1M10 & 1M18.
Try again
Error code is
from DC/DC ?
No
N
Y
SSB Start-up process Continue
Viper & I2C commands
switching VDisplay voltage to LVDS
connector
Check OVP Latch
+25V Hot and 400V Hot
LLC supply components, control
circuit....
Check PS in standalone mode
(disconnect display supply
connectors)
Y
Check output voltage.
LCD Inverter start up process
from SSB.........
Change SSB
BLR procedure
In case of short circuit on VDisplay
PS, disconnect LVDS cable
G_15970_033.eps
120506

Figure 5-20 First line fault find tree 37" LCD

5.8.1 Exit “Factory Mode”

When an "F" is displayed in the screen's right corner, this means that the set is in "Factory" mode, and it normally happens after a new SSB has been mounted.
To exit this mode, push the "VOLUME minus" button on the TV's keyboard control for 5 seconds and restart the set.

When a DVBT set starts up in factory mode, the set will tune to preset 0. When there is no channel installed on preset 0, there will be no picture and it will look like the set is in standby mode. De-activating factory mode can also be done via the above method.

5.8.2 MPIF

Important things to make the MPIF work:
- Supply.
- Clock signal from the AVIP.
- I^2C from the VIPER.

When there is no sound an external sources, check the audio supply of the MPIF.

5.8.3 PACIFIC 3

In case the Pacific fails, the set will go to standby. The reason for this is, when there is an occasional boot problem of the Pacific, it will look like the set has started up in standby mode, and the customer can switch it “on” again. When there is an actual problem with or around the Pacific the set will go to standby every time you try to start up. So this behaviour is an indication of a Pacific problem.

5.8.4 Ambilight

Note: in case of Ambilight protection, the set itself will not go to protection, only the Ambilight board. When you disconnect the set from the mains and reconnect again, the Ambilights will work again.

In case of multiple protections, check and replace the invertor transformers and/or the lamp unit(s).

Protections on the ambilight boards:

- **Parallel arcing protection**.In normal operation the inverter frequency is ±63 kHz. In case of short circuit of the transformer output the frequency is >100 kHz. Protection is done via sensing the switching frequency.
- **Serial arcing protection**. The detection of the arcing is done in the ground wire of lamp units. The µProcessor is counting the protection pulses. When 50 pulses are counted within 2 seconds protection will be triggered.

5.8.5 Sanken Display Supply.

All 42” LCD sets for this chassis have a “Sanken” display supply. The 42PF9641D/10 has a 24 V “Sanken” supply whereas all other 42” LCD sets have a 295 V “Sanken” supply. If these supplies fail, there will be no error or protection because there is no feedback foreseen from the supply towards the SSB.
The result of a failing Sanken display supply could be that there is no picture, but that you will probably have sound and 1 out of 3 ambilights will still work (in case of 3-sided ambilight and ambilight is switched on). Another result of a failing Sanken display supply is of course that the set is completely dead.
When the primary circuit of the platform supply fails, there is a high possibility that the main fuse of the Sanken display supply will break. In this case the Sanken supply must not be replaced completely, just replace the Sanken main fuse and repair the platform supply. For safety reasons, make sure to use the correct fuse type.

5.8.6 DC/DC Converter

Introduction
- Because ICs on the SSB require low supply voltages (1.2V, 2.6V, 3.3V) at high current (a few Ampères), on-board DC-DC converters were implemented:
  - 12V / 1V2 DC-DC converter
  - extra 12V / 1V2 DC-DC converter for FPGA (only on 1080p boards)
  - 12V / 2V6 DC-DC converter
  - 12V / 3V3 DC-DC converter
  - Vtun (+33V) generator (not for single window digital boards)
- Startup sequence:
  Apply +5V2. The standby microprocessor will begin the start sequence.
  - the STANDBY signal will go low to enable the external supply that will deliver +12V, +8V6 and +5V to the SSB via connector 1M46
  - As soon as the +12V has its nominal value, the 12V / 1V2 DC-DC converter is enabled via ENABLE 1V2. +1V2 should have its nominal value within miliseconds.
  - If the +1V2 is ok the 12V / 2V5, 12V / 3V3 DC-DC converters (and the Vtun generator and 12V / 1V2 DC-DC converter for FPGA, if present) are enabled via ENABLE 2V5 and ENABLE 3V3. +2V5 and +3V3 (and Vtun and +1V2-FPGA, if it is the case) should have their nominal values within a few miliseconds.
- There are LEDs that light up when +1V2, +2V5, +2V5D and +3V3 are available.
- If the +12V is not available the start-up sequence is stopped and the board enters in protection state.
- The same will happen if, further in the start-up sequence a voltage is missing or the signal SUPPLY-FAULT remains low.
- The signal SUPPLY-FAULT should be high (>2V) when all DC-DC converters are working properly. The signal is becoming active (low) when there is a defective or missing component in any of the three DC-DC converters or the output voltages are short-circuited to ground.

Fault Finding
- The best way to find a failure in the DC-DC converters is to check their start-up sequence at power on via the mains cord, presuming that the standby µP is operational.
- If the input voltage of the DC-DC converters is around 12V (measured on the decoupling capacitors 2U17, 2U25 and 2U45) and the enable signals are low (active) then the output voltages should have their nominal values.
- In case of a wrong value of the output voltages (or no output voltage):
  - Check the value of the signals (STANDBY, ENABLE 1V2, ENABLE 2V5, ENABLE 3V3 and SUPPLY-FAULT)
  - Check the value of the supply voltages for the IC controllers (pin 15 of IC’s 7U04, 7U05, 7U06 and 7U64 must be +12V)
  - Check the switching frequency (250 kHz) and the duty cycle of each DC-DC converter
  - Check short-circuits to GND of output voltages

5.9 Software Upgrading

5.9.1 Introduction

The set software and security keys are stored in a NAND-Flash, which is connected to the VIPER via the PCI bus.

It is possible **for the user** to upgrade the **main** software via the USB port. This allows replacement of a software image in a stand alone set, without the need of an E-JTAG debugger. A description on how to upgrade the main software can be found in chapter 3 "Directions For Use".

Important: When the NAND-Flash must be replaced, a new SSB must be ordered, due to the presence of the security keys!!! (copy protection keys, MAC address, for US the POD keys, ...). See table “SSB service kits” for the order codes.
Perform the following actions after SSB replacement:
1. Set the correct option codes (see sticker inside the TV).
2. Update the TV software (see chapter 3 for instructions).
3. Perform the alignments as described in chapter 8.
4. Check in CSM if the HDMI keys are valid.

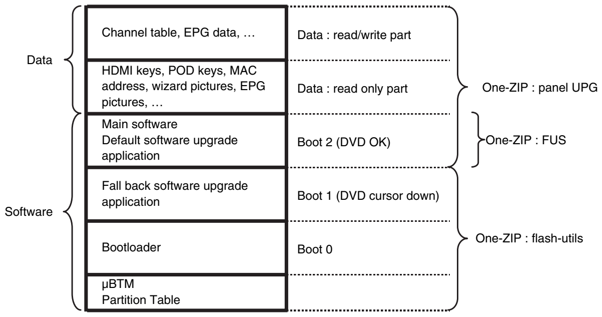
Table 5-3 SSB service kits

Model Number	SSB factory assy code1)	New SSB order code
32PF9531/10	3104 328 46631	refer to Spare Parts list
32PF9631D/10	3104 328 46691	refer to Spare Parts list
32PF9731D/10	3104 328 44071	refer to Spare Parts list
37PF9731/69	3104 328 44061	refer to Spare Parts list
37PF9731D/10	3104 328 44061	refer to Spare Parts list
42PF9641D/10	3104 328 49751	refer to Spare Parts list
42PF9731D/10	3104 328 48801	refer to Spare Parts list
42PF9831/69	3104 328 44053	refer to Spare Parts list
42PF9831D/10	3104 328 44053	refer to Spare Parts list

1) Information in column “SSB factory assy code” is only for reference purposes. Do **not** use this code when ordering a new SSB.

5.9.2 Main Software Upgrade

The software image resides in the NAND-Flash, and is formatted in the following way:



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181006

Figure 5-21 NAND-Flash content

- Main software and default download application can be upgraded via USB stick. See below.
- “Fall back software upgrade application”, bootloader and µBTM can only be recovered via special EJTAG tooling and the "flash utils" part of the one-zip. Only service centra who are allowed to do component level repair have such tooling.
- The "panel upg" which you will also find in the one-zip file is used for factory purposes only.

Automatic Software Upgrade.
In "normal" conditions, so when there is no major problem with the TV, the main software and the default software upgrade application can be upgraded with the autorun.upg (FUS part of the one-zip file: e.g. 3104 337 02871 _FUS _BX31E_ 0.48.20.0_commercial.zip). This can also be done by the customers themselves, but they will have to get their software from the commercial Philips website. The autorun.upg file must be put in the root of your USB stick.
How to upgrade :
1. Copy "autorun.upg" to the root of your USB stick
2. Insert USB stick in the side I/O while the set is in ON MODE. The set will restart and the upgrading will start automatically. As soon as the programming is finished, you'll get the message that you can remove your USB stick and restart the set.

Manual Software Upgrade.
In case that the software upgrade application does not start automatically, you can also start it manually.
How to start the software upgrade application manually :
1. Disconnect the TV from the Mains/AC Power.
2. Press the "OK" button on a Philips DVD RC-6 remote control (it is also possible to use the TV remote in "DVD" mode).Keep the "OK” button pressed while connecting the TV to the Mains/AC Power.
3. The software upgrade application will start.

Attention !
In case that you have started the download application manually, the "autorun.upg" will not be recognized.
What to do in this case :
1. Create a directory "upgrades" on your USB stick.
2. Rename the "autorun.upg" to something else, e.g. to "software.upg". Don't use long or complicated names, keep it simple. Make sure that autorun.upg is no longer present in the root of your USB stick.
3. Copy the renamed upg file into this directory.
4. Insert USB stick in the side I/O.
5. The renamed upg file will be visible and selectable in the upgrade application.

Fall Back Software Upgrade Application.
If the default software upgrade application does not start (could be due to a corrupted boot 2 sector) via the above described method, you can try to activate the “fall-back software upgrade application”.
How to start the “fall back software upgrade application” manually :
1. Disconnect the TV from the Mains/AC Power.
2. Press the "cursor down" button on a Philips DVD RC-6 remote control (it is also possible to use the TV remote in "DVD" mode). Keep the "cursor down" button pressed while connecting the TV to the Mains/AC Power.
3. The software upgrade application will start.

5.9.3 Stand-by Software Upgrade

There are two methods now to upgrade stand-by software:

Upgrade via USB
In this chassis it is possible to upgrade stand-by software via a USB stick. The method is similar to upgrading main software via USB.
Use the following steps:

1. Create a directory “upgrades” on your USB stick.
2. Copy the stand-by software (delivered via the Service organization) into this directory.
3. Insert the USB stick into the TV.
4. Start the download application manually (see paragraph “Manual start of the Software Upgrade Application”.
5. Select the appropriate file and press the red button to upgrade:

Upgrade via PC and ComPair interface
It will be possible to upgrade the Stand-by software via a PC and the ComPair interface. Check paragraph "ComPair" on how to connect the interface. To upgrade the Stand-by software, use the following steps:

1. Disconnect the TV from the Mains/AC Power.
2. Short circuit the SPI pins [2] on the SSB. They are located outside the shielding (see figure “Service mode pads”).
3. Keep the SPI pins shorted while connecting the TV to the Mains/AC Power.
4. Release the short circuit after approx. two seconds.
5. Start up HyperTerminal (can be found in every Windows application via Programs -> Accessories -> Communications -> HyperTerminal). Use the following settings:
   - COM1
   - Bits per second = 38400 (9600)*
   - Data bits = 8
   - Parity = none
   - Stop bits = 1
   - Flow control = None
6. Press “Shift U” on your PC keyboard. You should now see the following info:
   - PNX2015 Loader V1.0
   - 19-09-2003
   - DEVID=0x05
   - Erasing
   - MCSUM=0x0000
   - =
7. If you do not see the above info, restart the above procedure, and check your HyperTerminal settings and the connections between PC and TV.
8. Via “Transfer” -> “Send text file ...”, you can send the proper upgrade file to the TV (e.g. *.hex). This file will be distributed via the Service Organization.
9. After successful programming, you must see the following info (this can take several minutes!):
   - DCSUM=0xECB3
   - :Ok
   - MCSUM=0xECB3
   - Programming
   - PCSUM=0xECB3
   - Finished
10. If you do not see this info, restart the complete procedure.
11. Close HyperTerminal.
12. Disconnect and connect Mains/AC Power again.

(*) When having problems with upgrading, use the values between brackets.

Personal Notes:

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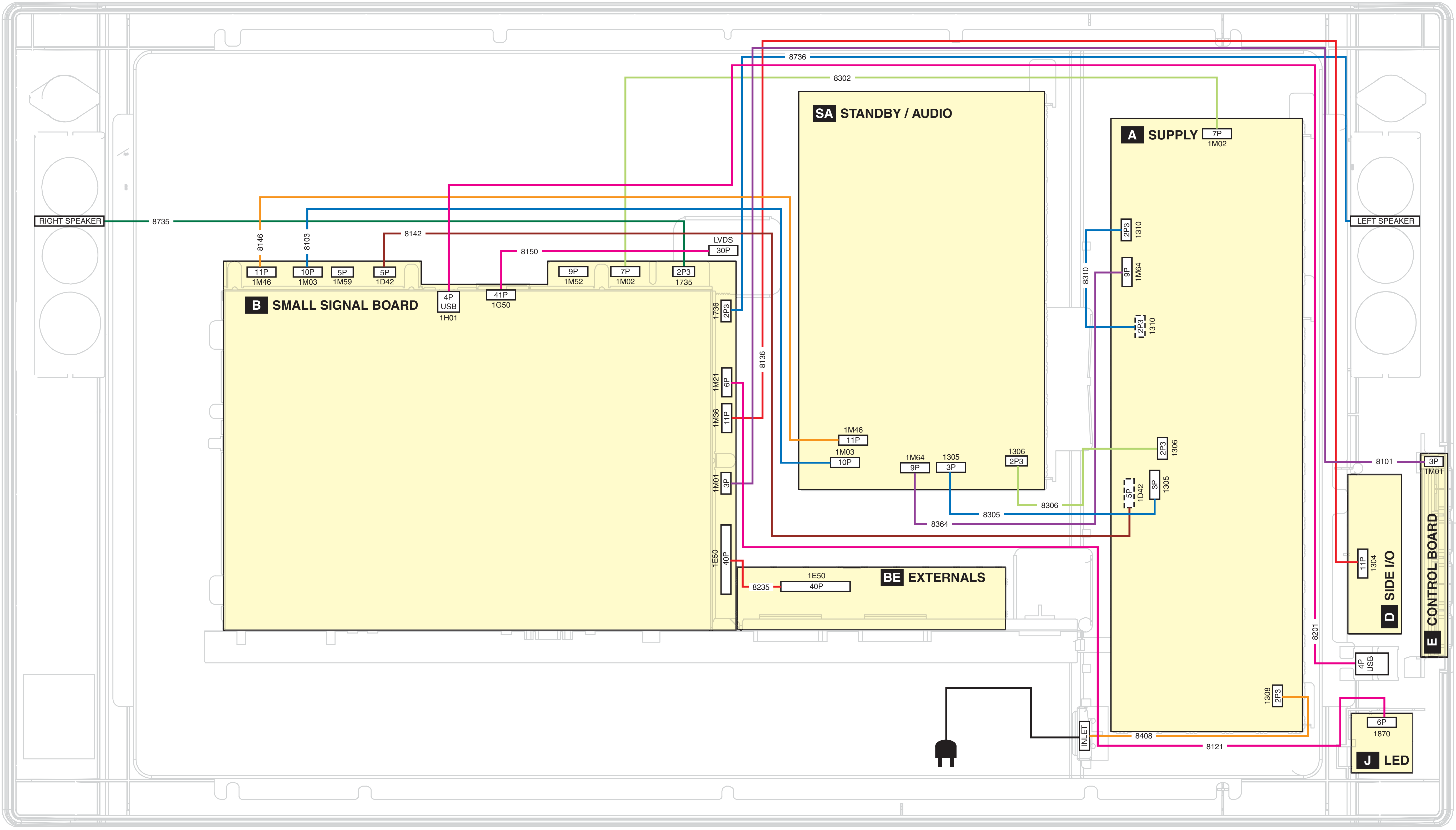
131004

6. Block Diagrams, Test Point Overviews, and Waveforms

Wiring Diagram 32” STEP (ME6)

WIRING 32” (ME6)


RIGHT SPEAKER
8735
LEFT SPEAKER
8736
8302
SA STANDBY / AUDIO
A SUPPLY
7P
1M02
8146
8103
8142
8150
LVDS
30P
11P
1M46
10P
1M03
5P
1M59
5P
1D42
9P
1M52
7P
1M02
2P3
1735
B SMALL SIGNAL BOARD
4P
USB
1H01
41P
1G50
1736
2P3
8136
1M21
6P
1M36
11P
1M01
3P
1E50
40P
1E50
40P
8235
BE EXTERNALS
1M46
11P
1M03
10P
1M64
9P
1305
3P
1306
2P3
8364
8305
8306
8310
2P3
1310
9P
1M64
2P3
1310
2P3
1306
5P
1D42
3P
1305
8101
3P
1M01
11P
1304
D SIDE I/O
E CONTROL BOARD
8201
4P
USB
1308
2P3
INLET
8408
8121
6P
1870
J LED

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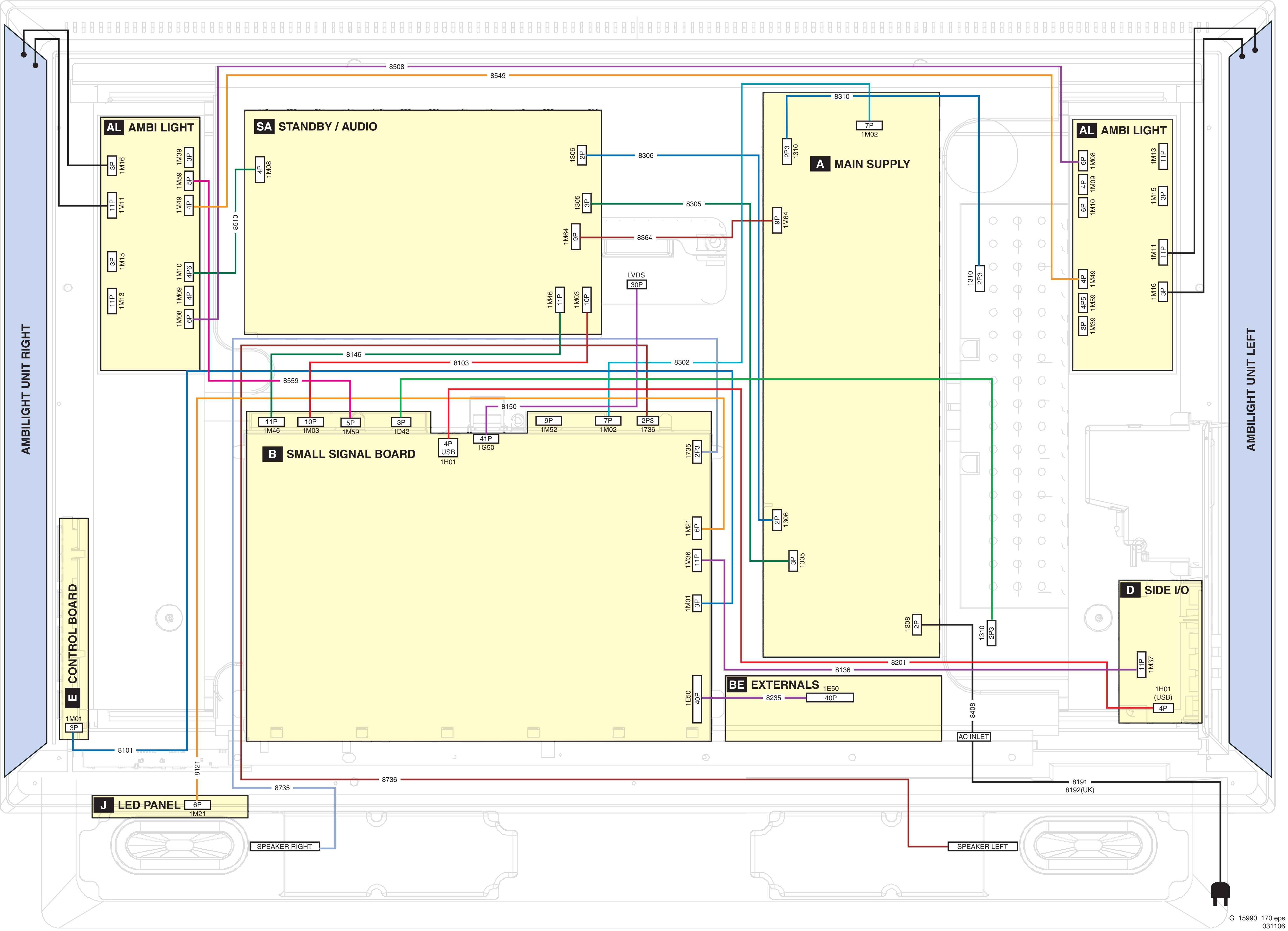
111006

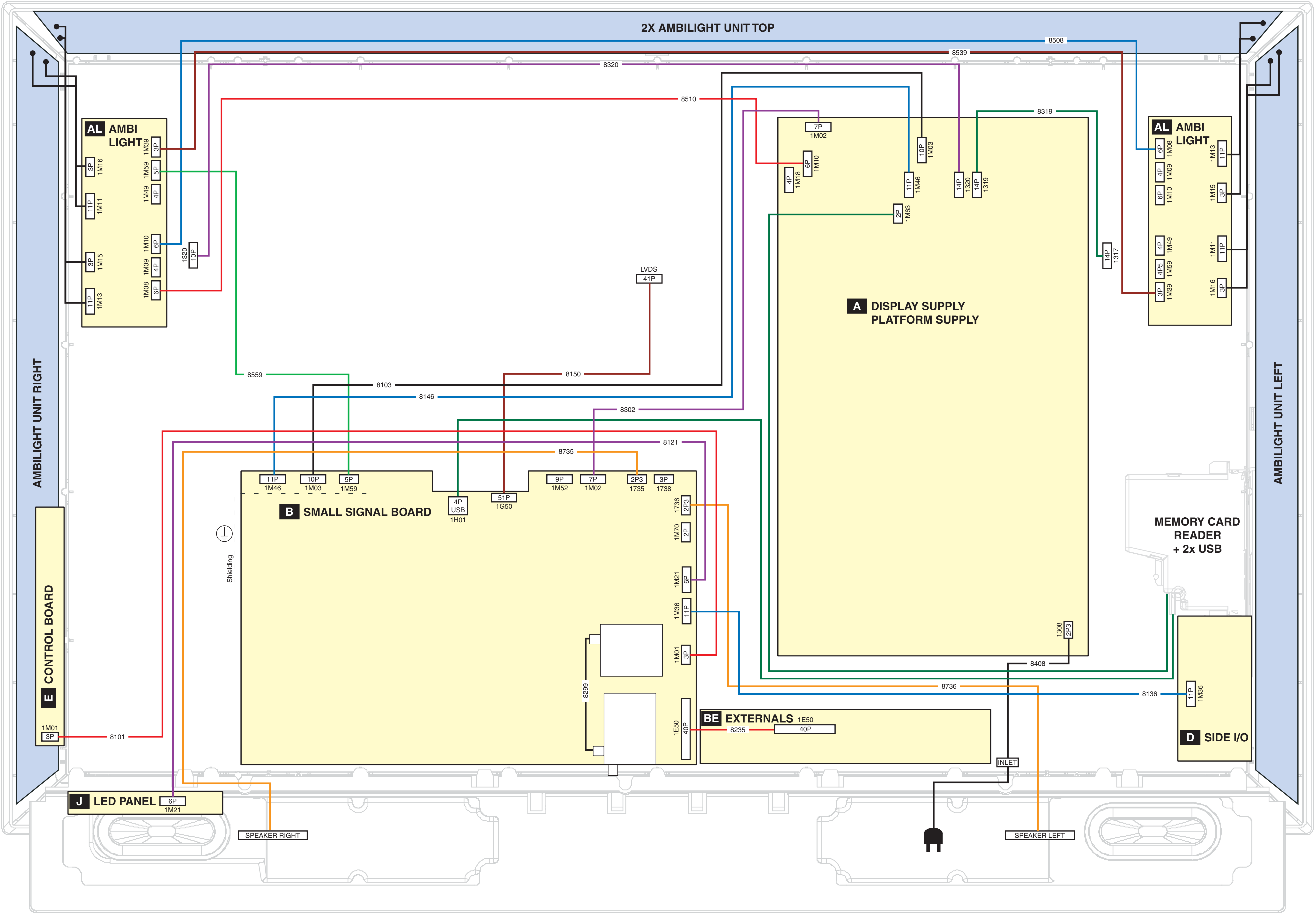
Wiring Diagram 32” TOP B

WIRING 32” TOP B


AMBILIGHT UNIT RIGHT
AL AMBI LIGHT
3P 1M16
11P 1M11
3P 1M15
11P 1M13
1M39 3P
1M59 5P
1M49 4P
1M10 4P6
1M09 4P
1M08 6P
8508
8549
8510
SA STANDBY / AUDIO
4P 1M08
1306 2P
1305 3P
1M64 9P
1M46 11P
1M03 10P
8306
8305
8364
LVDS
30P
8310
7P
1M02
2P3 1310
A MAIN SUPPLY
9P 1M64
1310 2P3
2P 1306
3P 1305
1308 2P
1310 2P3
AL AMBI LIGHT
6P 1M08
4P 1M09
6P 1M10
4P 1M49
4P5 1M59
3P 1M39
1M13 11P
1M15 3P
1M11 11P
1M16 3P
AMBILIGHT UNIT LEFT
8146
8103
8302
8559
8150
11P 1M46
10P 1M03
5P 1M59
3P 1D42
4P USB 1H01
41P 1G50
9P 1M52
7P 1M02
2P3 1736
B SMALL SIGNAL BOARD
1735 2P3
1M21 6P
1M36 11P
1M01 3P
1E50 40P
E CONTROL BOARD
1M01
3P
8101
8121
J LED PANEL
6P
1M21
8735
8736
SPEAKER RIGHT
SPEAKER LEFT
8201
8136
BE EXTERNALS
1E50
8235
40P
8408
AC INLET
D SIDE I/O
11P 1M37
1H01 (USB)
4P
8191
8192(UK)
G_15990_170.eps
031106

Wiring Diagram 37” TOP B

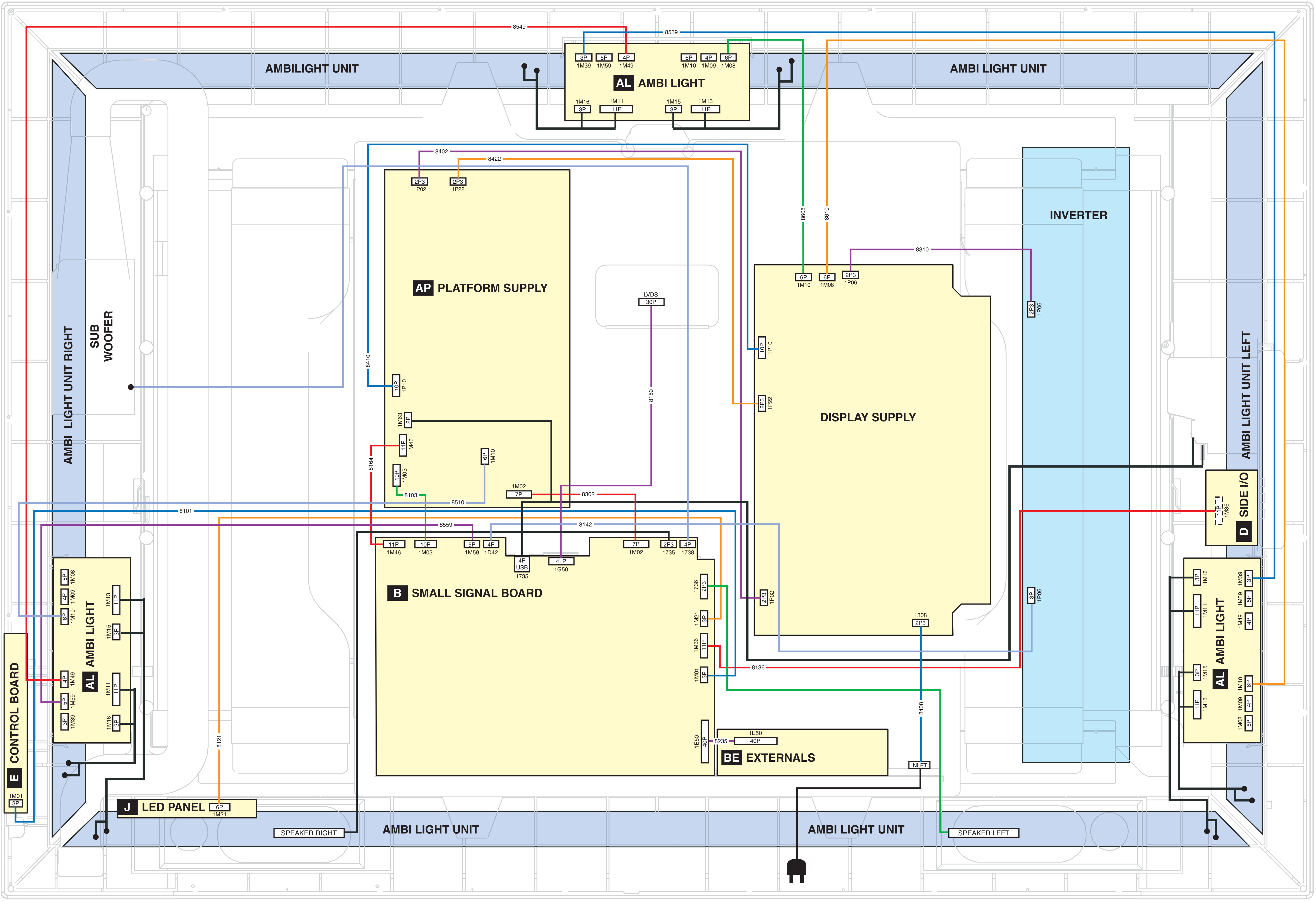
WIRING 37”TOP B


2X AMBILIGHT UNIT TOP
8508
8539
8320
8510
8319
AL AMBI LIGHT
1M39 3P
1M59 5P
1M49 4P
1M10 6P
1M09 4P
1M08 6P
3P 1M16
11P 1M11
3P 1M15
11P 1M13
1320 10P
7P 1M02
6P 1M10
4P 1M18
10P 1M03
11P 1M46
14P 1320
14P 1319
2P 1M63
14P 1317
AL AMBI LIGHT
6P 1M08
4P 1M09
6P 1M10
4P 1M49
4P5 1M59
3P 1M39
1M13 11P
1M15 3P
1M11 11P
1M16 3P
LVDS 41P
A DISPLAY SUPPLY PLATFORM SUPPLY
AMBILIGHT UNIT RIGHT
AMBILIGHT UNIT LEFT
8559
8150
8103
8146
8302
8121
8735
11P 1M46
10P 1M03
5P 1M59
4P USB 1H01
51P 1G50
9P 1M52
7P 1M02
2P3 1735
3P 1738
B SMALL SIGNAL BOARD
Shielding
1736 2P3
1M70 2P
1M21 6P
1M36 11P
1M01 3P
1E50 40P
8299
MEMORY CARD READER + 2x USB
1308 2P3
8408
8736
8136
11P 1M36
D SIDE I/O
BE EXTERNALS 1E50
8235
40P
INLET
E CONTROL BOARD
1M01 3P
8101
J LED PANEL 6P 1M21
SPEAKER RIGHT
SPEAKER LEFT

G_15990_171.eps
031106

Wiring Diagram 42” TOP A

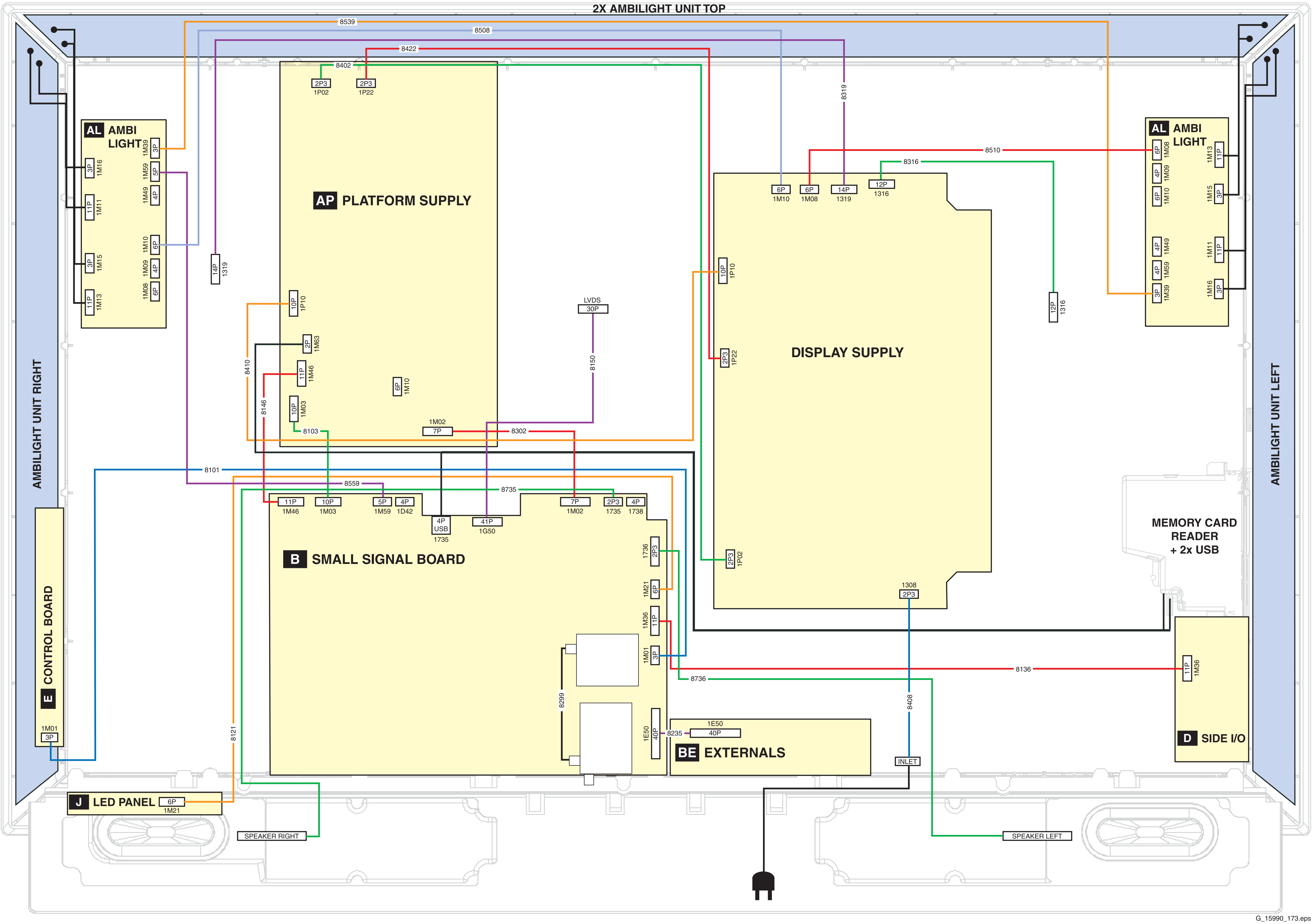
WIRING 42”TOP A


8549
8539
AMBILIGHT UNIT
AMBI LIGHT UNIT
3P 1M39
5P 1M59
4P 1M49
6P 1M10
4P 1M09
6P 1M08
AL AMBI LIGHT
1M16 3P
1M11 11P
1M15 3P
1M13 11P
8402
8422
2P3 1P02
2P3 1P22
AP PLATFORM SUPPLY
8608
8610
8310
INVERTER
6P 1M10
6P 1M08
2P3 1P06
2P3 1P06
LVDS 30P
8150
10P 1P10
2P3 1P22
DISPLAY SUPPLY
AMBI LIGHT UNIT LEFT
AMBI LIGHT UNIT RIGHT
SUB WOOFER
8410
10P 1P10
1M63 2P
11P 1M46
8164
10P 1M03
6P 1M10
1M02 7P
8302
8103
8510
8101
8559
8142
11P 1M46
10P 1M03
5P 1M59
4P 1D42
4P USB 1735
41P 1G50
7P 1M02
2P3 1735
4P 1738
11P 1M36
D SIDE I/O
B SMALL SIGNAL BOARD
1736 2P3
1M21 3P
1M36 11P
1M01 3P
2P3 1P02
1308 2P3
3P 1P06
8136
8408
1E50 40P
8235
1E50 40P
BE EXTERNALS
INLET
6P 1M08
4P 1M09
6P 1M10
AL AMBI LIGHT
1M13 11P
1M15 3P
4P 1M49
5P 1M59
3P 1M39
1M11 11P
1M16 3P
3P 1M16
11P 1M11
3P 1M15
11P 1M13
3P 1M39
5P 1M59
4P 1M49
6P 1M10
4P 1M09
6P 1M08
E CONTROL BOARD
1M01 3P
8121
J LED PANEL
6P 1M21
SPEAKER RIGHT
AMBI LIGHT UNIT
AMBI LIGHT UNIT
SPEAKER LEFT

G_15990_172.eps
031106

Wiring Diagram 42” TOP B

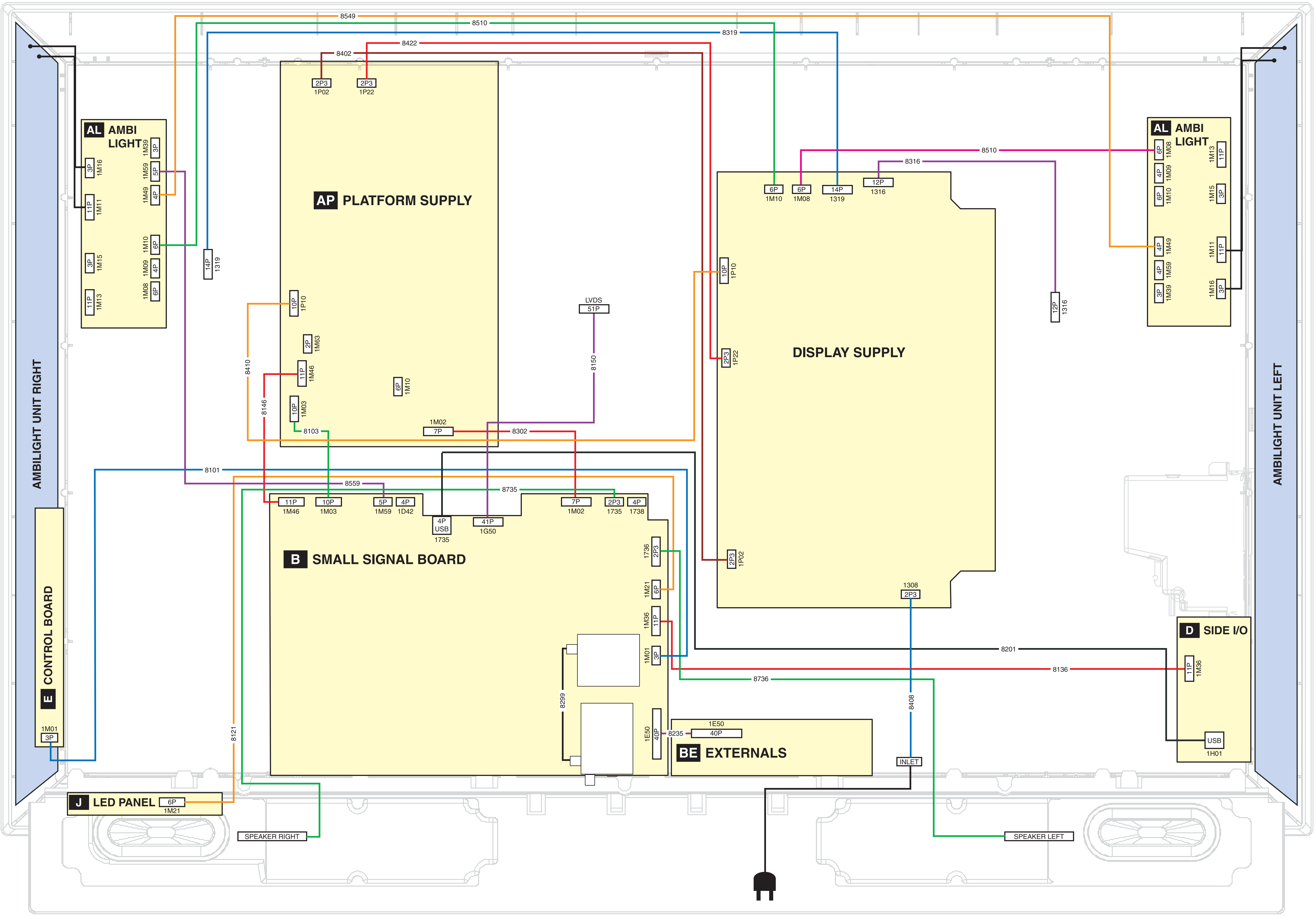
WIRING 42”TOP B


2X AMBILIGHT UNIT TOP
8539
8508
8422
8402
8319
8510
8316
AL AMBI LIGHT
1M39 3P
1M59 5P
1M49 4P
1M10 6P
1M09 4P
1M08 6P
1M16 3P
1M11 11P
1M15 3P
1M13 11P
14P 1319
AP PLATFORM SUPPLY
2P3 1P02
2P3 1P22
10P 1P10
2P 1M63
11P 1M46
6P 1M10
10P 1M03
1M02 7P
8410
8146
8103
8302
8150
LVDS 30P
6P 1M10
6P 1M08
14P 1319
12P 1316
10P 1P10
2P3 1P22
DISPLAY SUPPLY
2P3 1P02
1308 2P3
12P 1316
AL AMBI LIGHT
6P 1M08
4P 1M09
6P 1M10
4P 1M49
4P 1M59
3P 1M39
11P 1M13
3P 1M15
11P 1M11
3P 1M16
AMBILIGHT UNIT RIGHT
AMBILIGHT UNIT LEFT
8101
8559
8735
11P 1M46
10P 1M03
5P 1M59
4P 1D42
4P USB 1735
41P 1G50
7P 1M02
2P3 1735
4P 1738
B SMALL SIGNAL BOARD
1736 2P3
1M21 6P
1M36 11P
1M01 3P
1E50 40P
8299
8235
8121
8736
8136
8408
E CONTROL BOARD
1M01 3P
1E50 40P
BE EXTERNALS
MEMORY CARD READER + 2x USB
11P 1M36
D SIDE I/O
INLET
J LED PANEL
6P 1M21
SPEAKER RIGHT
SPEAKER LEFT

G_15990_173.eps
191006

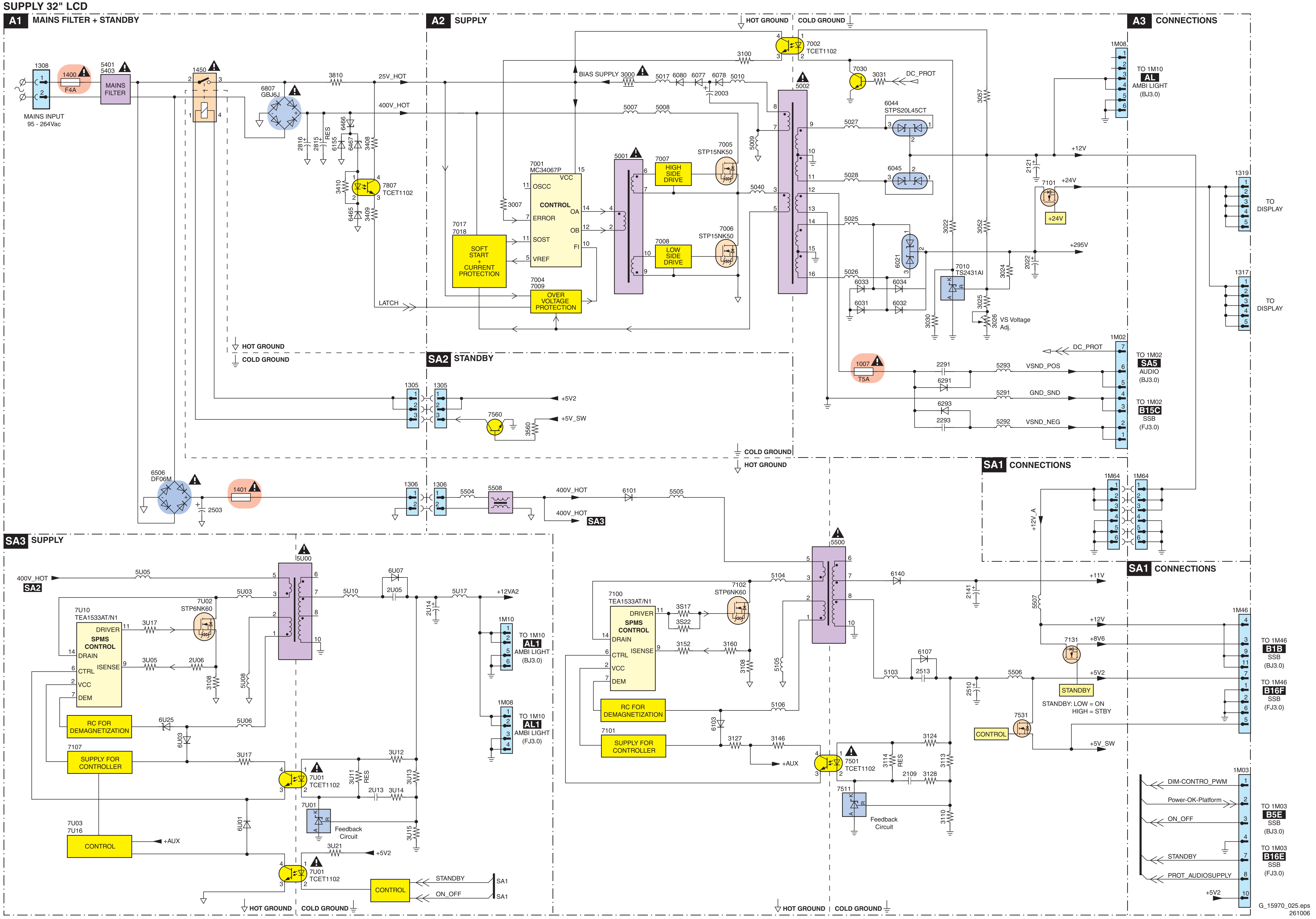
Wiring Diagram 42” STEP 2k6

WIRING 42” STEP 2K6

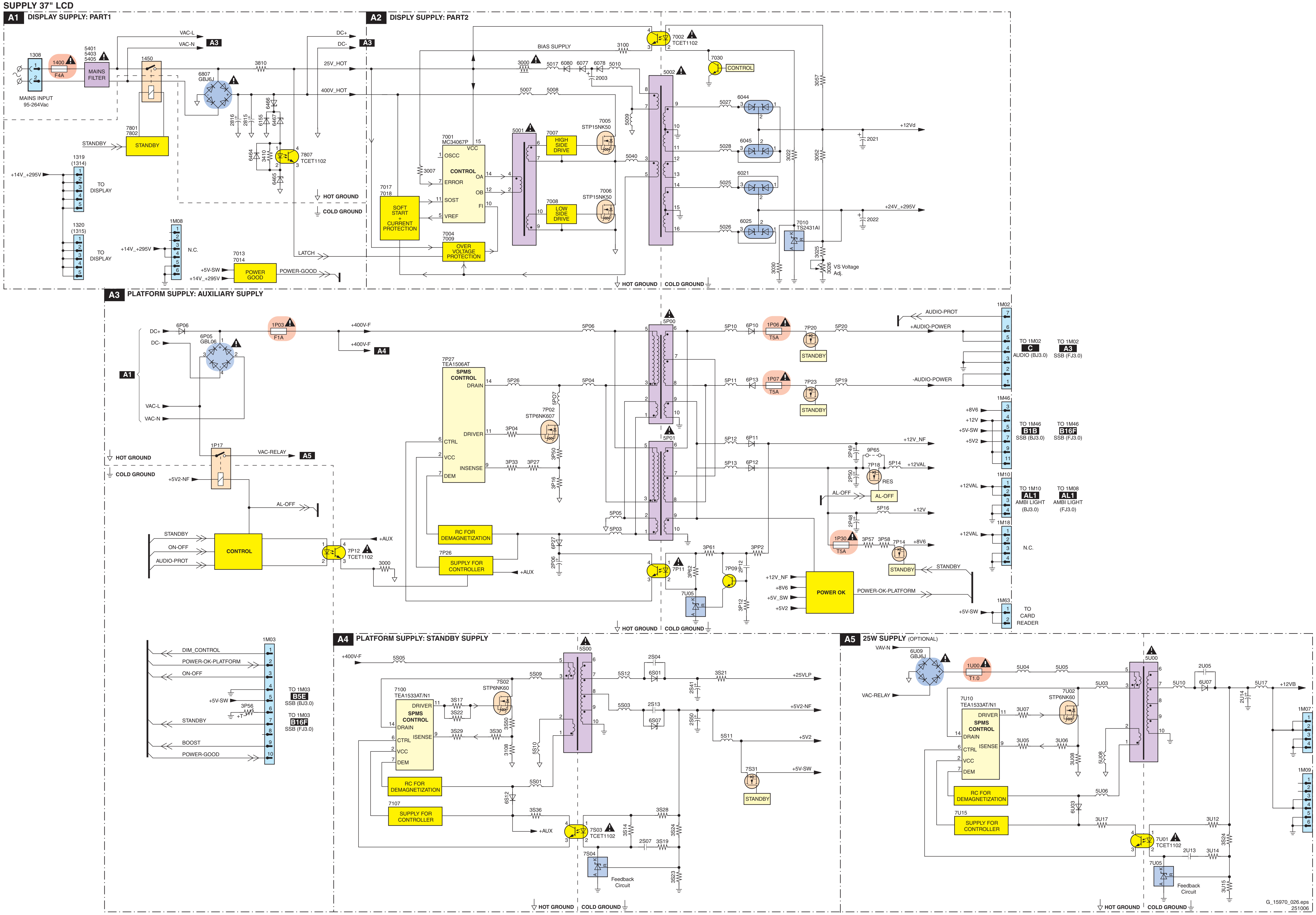

8549
8510
8319
8422
8402
2P3 1P02
2P3 1P22
AL AMBI LIGHT
3P 1M39
3P 1M16
5P 1M59
4P 1M49
11P 1M11
6P 1M10
3P 1M15
4P 1M09
11P 1M13
6P 1M08
14P 1319
AP PLATFORM SUPPLY
10P 1P10
2P 1M63
11P 1M46
10P 1M03
6P 1M10
1M02 7P
8410
8146
8103
8302
LVDS 51P
8150
6P 1M10
6P 1M08
14P 1319
12P 1316
8510
8316
10P 1P10
2P3 1P22
DISPLAY SUPPLY
2P3 1P02
1308 2P3
12P 1316
AL AMBI LIGHT
6P 1M08
11P 1M13
4P 1M09
6P 1M10
3P 1M15
4P 1M49
11P 1M11
4P 1M59
3P 1M39
3P 1M16
AMBILIGHT UNIT RIGHT
AMBILIGHT UNIT LEFT
8101
8559
8735
11P 1M46
10P 1M03
5P 1M59
4P 1D42
4P USB 1735
41P 1G50
7P 1M02
2P3 1735
4P 1738
B SMALL SIGNAL BOARD
1736 2P3
1M21 6P
1M36 11P
1M01 3P
1E50 40P
8299
8121
8235
1E50 40P
BE EXTERNALS
8201
8136
8736
8408
INLET
D SIDE I/O
11P 1M36
USB 1H01
E CONTROL BOARD
1M01 3P
J LED PANEL
6P 1M21
SPEAKER RIGHT
SPEAKER LEFT

G_15990_183.eps
311006

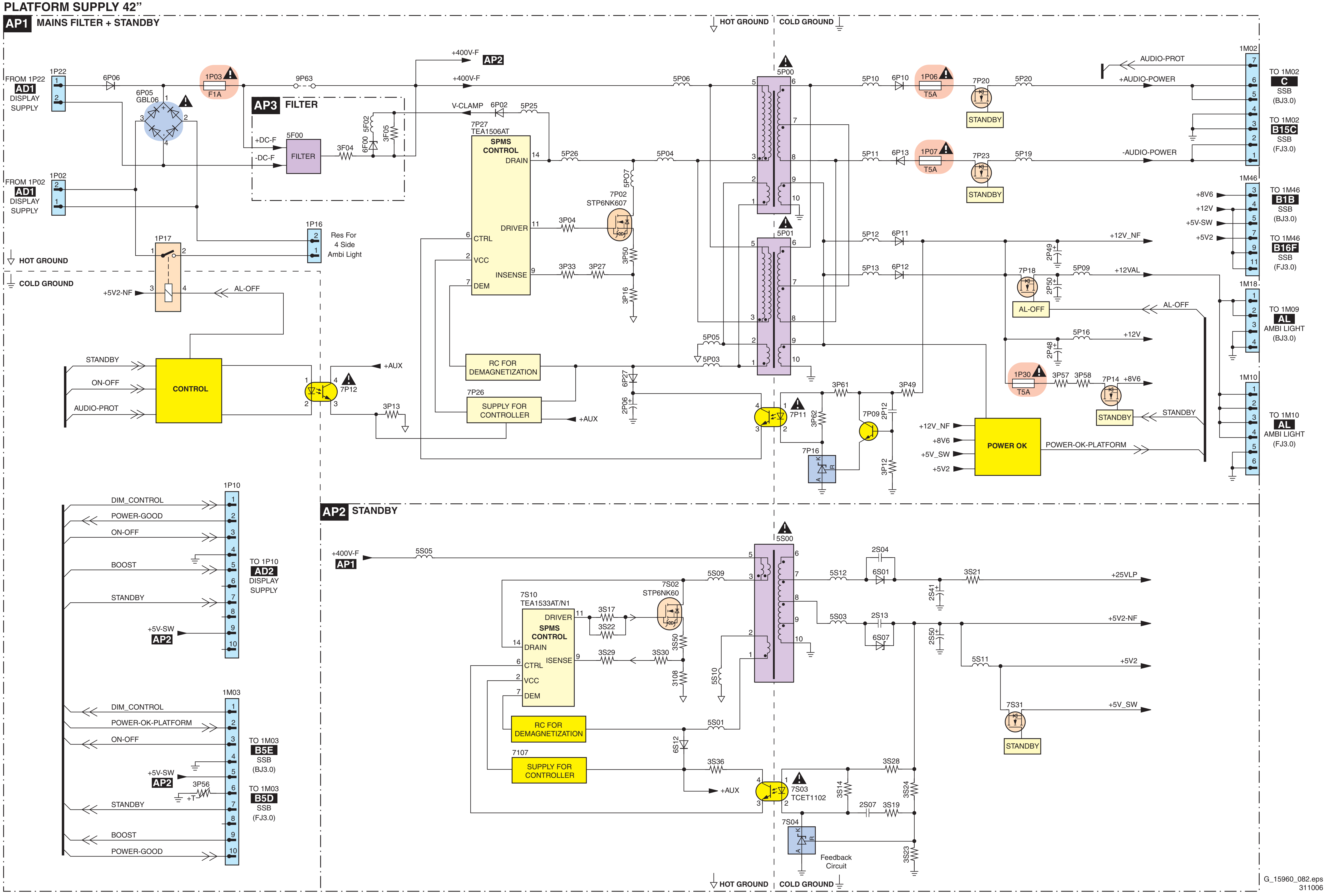
Block Diagram Supply 32” LCD


SUPPLY 32" LCD
A1 MAINS FILTER + STANDBY
A2 SUPPLY
A3 CONNECTIONS
HOT GROUND
COLD GROUND
1308
1400
F4A
5401
5403
MAINS FILTER
MAINS INPUT
95 - 264Vac
1450
6807
GBJ6J
3810
25V_HOT
400V_HOT
2816
2815
RES
6155
6466
6467
3408
3410
6465
3409
7807
TCET1102
LATCH
BIAS SUPPLY 3000
5017
6080
6077
6078
5010
2003
5007
5008
7001
MC34067P
VCC
OSCC
CONTROL
ERROR
OA
OB
SOST
FI
VREF
3007
7017
7018
SOFT START + CURRENT PROTECTION
7004
7009
OVER VOLTAGE PROTECTION
5001
7007
HIGH SIDE DRIVE
7005
STP15NK50
7008
LOW SIDE DRIVE
7006
STP15NK50
5040
5009
3100
7002
TCET1102
5002
7030
3031
DC_PROT
6044
STPS20L45CT
5027
5028
6045
5025
5026
6021
6033
6034
6031
6032
3057
3022
3052
7010
TS2431AI
3024
3025
3026
VS Voltage Adj.
3030
2121
7101
+24V
+12V
+295V
2022
1M08
TO 1M10
AL
AMBI LIGHT
(BJ3.0)
1319
TO DISPLAY
1317
TO DISPLAY
1M02
DC_PROT
TO 1M02
SA5
AUDIO
(BJ3.0)
1007
T5A
2291
6291
5293
VSND_POS
5291
GND_SND
6293
2293
5292
VSND_NEG
TO 1M02
B15C
SSB
(FJ3.0)
SA2 STANDBY
1305
+5V2
7560
3560
+5V_SW
SA1 CONNECTIONS
1M64
6506
DF06M
1401
2503
1306
5504
5508
6101
5505
400V_HOT
SA3
SA3 SUPPLY
400V_HOT
SA2
5U05
5U03
7U10
TEA1533AT/N1
DRIVER
SPMS CONTROL
DRAIN
CTRL
ISENSE
VCC
DEM
7U02
STP6NK60
3U17
3U05
2U06
3108
5U08
5U00
6U07
2U05
5U10
5U17
+12VA2
2U14
1M10
TO 1M10
AL1
AMBI LIGHT
(BJ3.0)
1M08
(FJ3.0)
RC FOR DEMAGNETIZATION
6U25
6U03
5U06
7107
SUPPLY FOR CONTROLLER
3U12
7U01
TCET1102
3U11
3U13
2U13
3U14
Feedback Circuit
3U15
6U01
7U03
7U16
CONTROL
+AUX
3U21
+5V2
STANDBY
ON_OFF
SA1
5500
5104
6140
+11V
2141
7100
TEA1533AT/N1
7102
STP6NK60
3S17
3S22
3152
3160
3108
5105
5106
6103
7101
3127
3146
+AUX
7501
TCET1102
3114
RES
3113
2109
3128
7511
Feedback Circuit
3110
3124
6107
5103
2513
2510
5506
5507
+12V_A
7131
+8V6
+5V2
STANDBY
STANDBY: LOW = ON HIGH = STBY
7531
+5V_SW
1M46
TO 1M46
B1B
SSB
(BJ3.0)
TO 1M46
B16F
SSB
(FJ3.0)
1M03
DIM-CONTRO_PWM
Power-OK-Platform
ON_OFF
STANDBY
PROT_AUDIOSUPPLY
TO 1M03
B5E
SSB
(BJ3.0)
TO 1M03
B16E
SSB
(FJ3.0)
G_15970_025.eps
261006

Block Diagram Display/Platform Supply 37" LCD

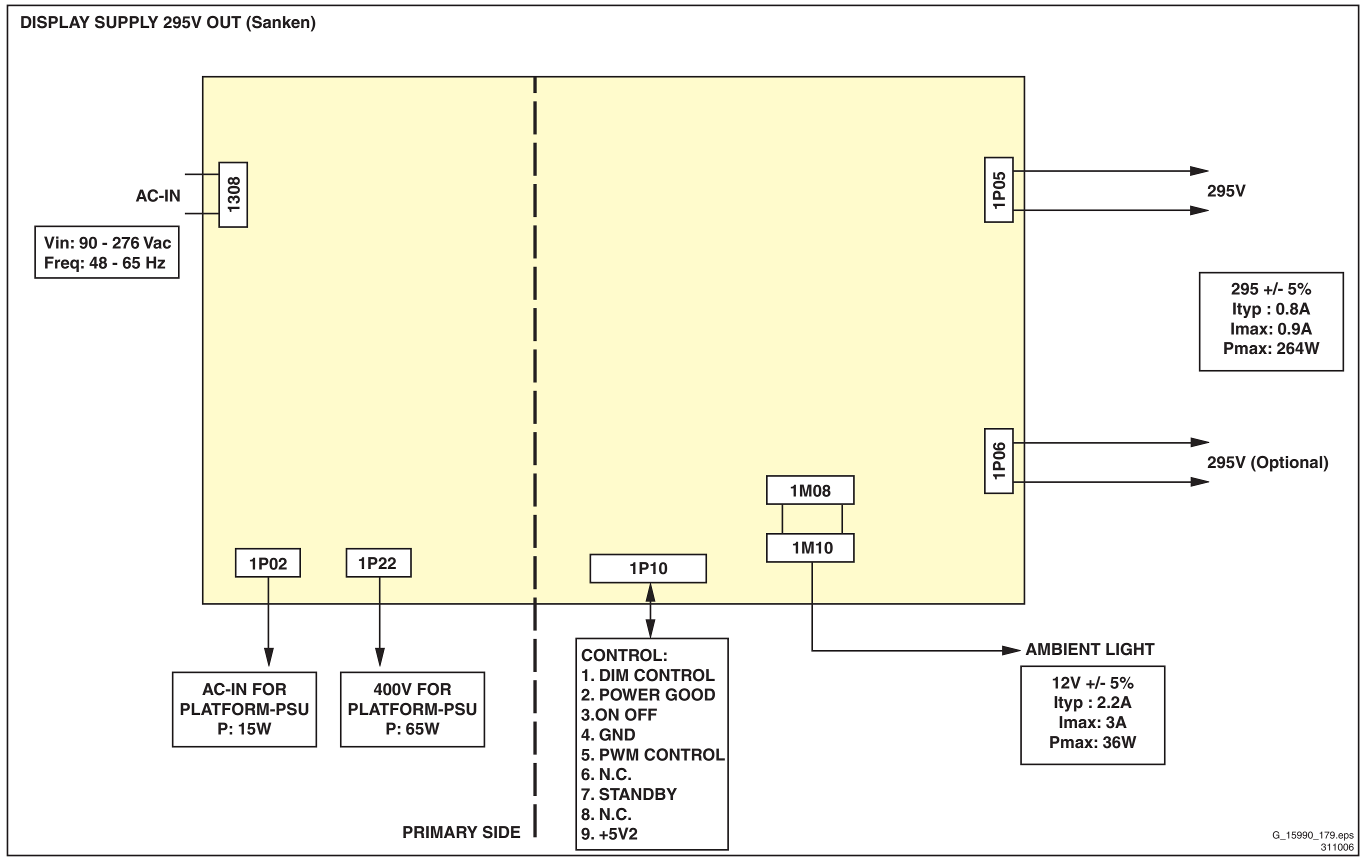

SUPPLY 37" LCD
A1 DISPLAY SUPPLY: PART1
A2 DISPLAY SUPPLY: PART2
A3 PLATFORM SUPPLY: AUXILIARY SUPPLY
A4 PLATFORM SUPPLY: STANDBY SUPPLY
A5 25W SUPPLY (OPTIONAL)
MAINS INPUT
95-264Vac
1308
1400
F4A
5401
5403
5405
MAINS FILTER
1450
7801
7802
STANDBY
6807
GBJ6J
VAC-L
VAC-N
3810
25V_HOT
400V_HOT
DC+
DC-
2816
2815
6155
6466
6467
6464
3410
7807
TCET1102
6465
HOT GROUND
COLD GROUND
1319
(1314)
+14V_+295V
TO DISPLAY
1320
(1315)
1M08
N.C.
7013
7014
+5V-SW
+14V_+295V
POWER GOOD
POWER-GOOD
LATCH
7017
7018
SOFT START + CURRENT PROTECTION
7001
MC34067P
OSCC
CONTROL
ERROR
SOST
VREF
VCC
OA
OB
FI
3007
7004
7009
OVER VOLTAGE PROTECTION
BIAS SUPPLY
3100
3000
5017
6080
6077
6078
5010
2003
5007
5008
5001
7007
HIGH SIDE DRIVE
7005
STP15NK50
7008
LOW SIDE DRIVE
7006
STP15NK50
5009
5040
5002
7002
TCET1102
7030
CONTROL
6044
5027
6045
5028
6021
5025
6025
5026
3022
3052
3057
2021
+12Vd
+24V_+295V
2022
7010
TS2431AI
3025
3026
3030
VS Voltage Adj.
1P03
F1A
+400V-F
6P06
6P05
GBL06
A1
VAC-L
VAC-N
1P17
VAC-RELAY
A5
+5V2-NF
AL-OFF
STANDBY
ON-OFF
AUDIO-PROT
CONTROL
7P12
TCET1102
+AUX
3000
7P27
TEA1506AT
SPMS CONTROL
DRAIN
DRIVER
CTRL
VCC
INSENSE
DEM
5P26
5P04
5P06
5P07
7P02
STP6NK60
3P04
3P33
3P27
3P50
3P16
RC FOR DEMAGNETIZATION
7P26
SUPPLY FOR CONTROLLER
6P27
2P06
5P05
5P03
5P00
5P01
5P10
6P10
1P06
T5A
7P20
5P20
STANDBY
5P11
6P13
1P07
T5A
7P23
5P19
AUDIO-PROT
+AUDIO-POWER
-AUDIO-POWER
1M02
TO 1M02
C
AUDIO (BJ3.0)
TO 1M02
A3
SSB (FJ3.0)
1M46
+8V6
+12V
+5V-SW
+5V2
TO 1M46
B1B
SSB (BJ3.0)
TO 1M46
B16F
SSB (FJ3.0)
5P12
6P11
+12V_NF
2P49
9P65
5P13
6P12
5P14
+12VAL
2P50
7P18
RES
AL-OFF
2P48
5P16
+12V
1M10
+12VAL
TO 1M10
AL1
AMBI LIGHT (BJ3.0)
TO 1M08
AL1
AMBI LIGHT (FJ3.0)
1M18
N.C.
1P30
T5A
3P57
3P58
7P14
+8V6
STANDBY
3P61
3PP2
7P11
3P62
7P09
2P12
7U05
3P12
+12V_NF
+8V6
+5V_SW
+5V2
POWER OK
POWER-OK-PLATFORM
1M63
+5V-SW
TO CARD READER
1M03
DIM_CONTROL
POWER-OK-PLATFORM
ON-OFF
+5V-SW
3P56
+T
STANDBY
BOOST
POWER-GOOD
TO 1M03
B5E
SSB (BJ3.0)
TO 1M03
B16F
SSB (FJ3.0)
+400V-F
5S05
7100
TEA1533AT/N1
DRIVER
SPMS CONTROL
DRAIN
CTRL
ISENSE
VCC
DEM
7S02
STP6NK60
3S17
3S22
3S29
3S30
3S50
3108
5S09
5S10
5S00
5S12
2S04
6S01
3S21
+25VLP
2S41
5S03
2S13
6S07
+5V2-NF
2S50
5S11
+5V2
7S31
+5V-SW
STANDBY
RC FOR DEMAGNETIZATION
5S01
7107
SUPPLY FOR CONTROLLER
6S12
3S36
+AUX
7S03
TCET1102
3S14
2S07
3S19
3S28
3S24
7S04
Feedback Circuit
3S23
VAV-N
6U09
GBJ6J
1U00
T1.0
VAC-RELAY
5U04
5U05
5U03
7U10
TEA1533AT/N1
DRIVER
SPMS CONTROL
DRAIN
CTRL
ISENSE
VCC
DEM
7U02
STP6NK60
3U07
3U05
3U06
3U08
5U08
5U00
2U05
5U10
6U07
5U17
+12VB
2U14
1M07
N.C.
1M09
N.C.
RC FOR DEMAGNETIZATION
5U06
6U03
7U15
SUPPLY FOR CONTROLLER
3U17
7U01
TCET1102
3U12
2U13
3U14
3S24
7U05
Feedback Circuit
3U15
G_15970_026.eps
251006

Block Diagram Platform Supply 42”


PLATFORM SUPPLY 42”
AP1 MAINS FILTER + STANDBY
HOT GROUND
COLD GROUND
FROM 1P22
AD1
DISPLAY
SUPPLY
1P22
6P06
6P05
GBL06
1P03
F1A
9P63
+400V-F
AP2
AP3 FILTER
+DC-F
-DC-F
5F00
FILTER
3F04
6F00
5F02
3F05
V-CLAMP
6P02
5P25
7P27
TEA1506AT
SPMS
CONTROL
DRAIN
DRIVER
CTRL
VCC
INSENSE
DEM
5P26
5P04
5P07
7P02
STP6NK607
3P04
3P33
3P27
3P50
3P16
FROM 1P02
AD1
DISPLAY
SUPPLY
1P02
1P16
Res For
4 Side
Ambi Light
1P17
+5V2-NF
AL-OFF
STANDBY
ON-OFF
AUDIO-PROT
CONTROL
7P12
+AUX
3P13
RC FOR
DEMAGNETIZATION
7P26
SUPPLY FOR
CONTROLLER
+AUX
6P27
2P06
5P06
5P00
5P01
5P05
5P03
7P11
3P62
3P61
7P09
2P12
3P49
3P12
7P16
5P10
6P10
1P06
T5A
7P20
STANDBY
5P20
5P11
6P13
1P07
T5A
7P23
STANDBY
5P19
AUDIO-PROT
+AUDIO-POWER
-AUDIO-POWER
1M02
TO 1M02
C
SSB
(BJ3.0)
TO 1M02
B15C
SSB
(FJ3.0)
1M46
+8V6
+12V
+5V-SW
+5V2
TO 1M46
B1B
SSB
(BJ3.0)
TO 1M46
B16F
SSB
(FJ3.0)
5P12
6P11
+12V_NF
2P49
5P13
6P12
7P18
2P50
5P09
+12VAL
AL-OFF
1M18
AL-OFF
TO 1M09
AL
AMBI LIGHT
(BJ3.0)
5P16
+12V
2P48
1P30
T5A
3P57
3P58
7P14
+8V6
STANDBY
STANDBY
1M10
TO 1M10
AL
AMBI LIGHT
(FJ3.0)
+12V_NF
+8V6
+5V_SW
+5V2
POWER OK
POWER-OK-PLATFORM
1P10
DIM_CONTROL
POWER-GOOD
ON-OFF
BOOST
STANDBY
+5V-SW
AP2
TO 1P10
AD2
DISPLAY
SUPPLY
1M03
DIM_CONTROL
POWER-OK-PLATFORM
ON-OFF
+5V-SW
AP2
3P56
STANDBY
BOOST
POWER-GOOD
TO 1M03
B5E
SSB
(BJ3.0)
TO 1M03
B5D
SSB
(FJ3.0)
AP2 STANDBY
+400V-F
AP1
5S05
5S00
5S09
7S02
STP6NK60
7S10
TEA1533AT/N1
DRIVER
SPMS
CONTROL
DRAIN
CTRL
ISENSE
VCC
DEM
3S17
3S22
3S50
3S29
3S30
3108
5S10
RC FOR
DEMAGNETIZATION
7107
SUPPLY FOR
CONTROLLER
5S01
6S12
3S36
+AUX
2S04
5S12
6S01
3S21
+25VLP
2S41
5S03
2S13
6S07
2S50
+5V2-NF
5S11
+5V2
7S31
+5V_SW
STANDBY
7S03
TCET1102
3S14
3S28
3S24
2S07
3S19
7S04
3S23
Feedback
Circuit
HOT GROUND
COLD GROUND

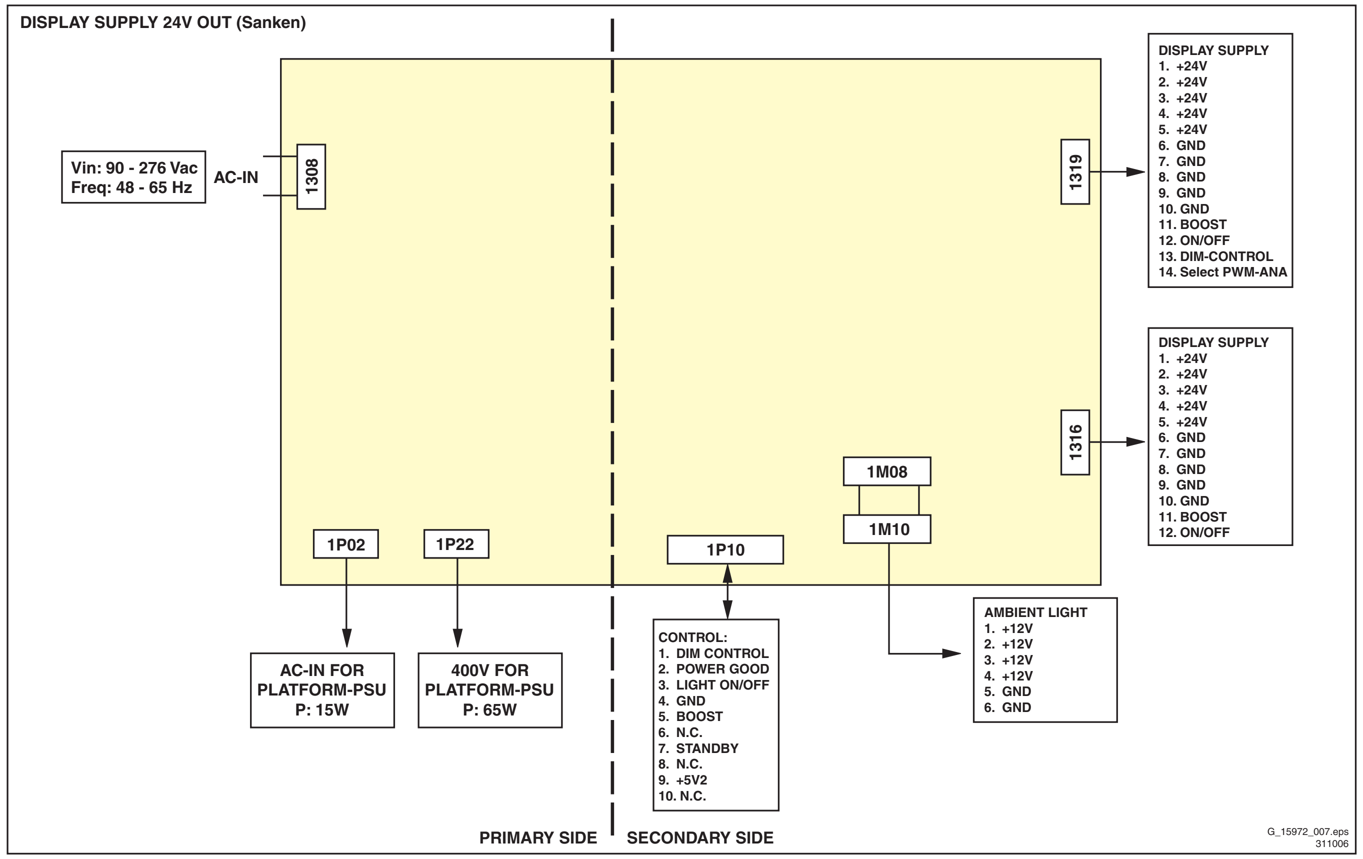
G_15960_082.eps
311006

Block Diagram Display Supply 295V (Sanken)


DISPLAY SUPPLY 295V OUT (Sanken)
AC-IN
1308
Vin: 90 - 276 Vac
Freq: 48 - 65 Hz
1P05
295V
295 +/- 5%
Ityp : 0.8A
Imax: 0.9A
Pmax: 264W
1P06
295V (Optional)
1M08
1M10
1P02
1P22
1P10
AMBIENT LIGHT
12V +/- 5%
Ityp : 2.2A
Imax: 3A
Pmax: 36W
AC-IN FOR
PLATFORM-PSU
P: 15W
400V FOR
PLATFORM-PSU
P: 65W
CONTROL:
1. DIM CONTROL
2. POWER GOOD
3.ON OFF
4. GND
5. PWM CONTROL
6. N.C.
7. STANDBY
8. N.C.
9. +5V2
PRIMARY SIDE

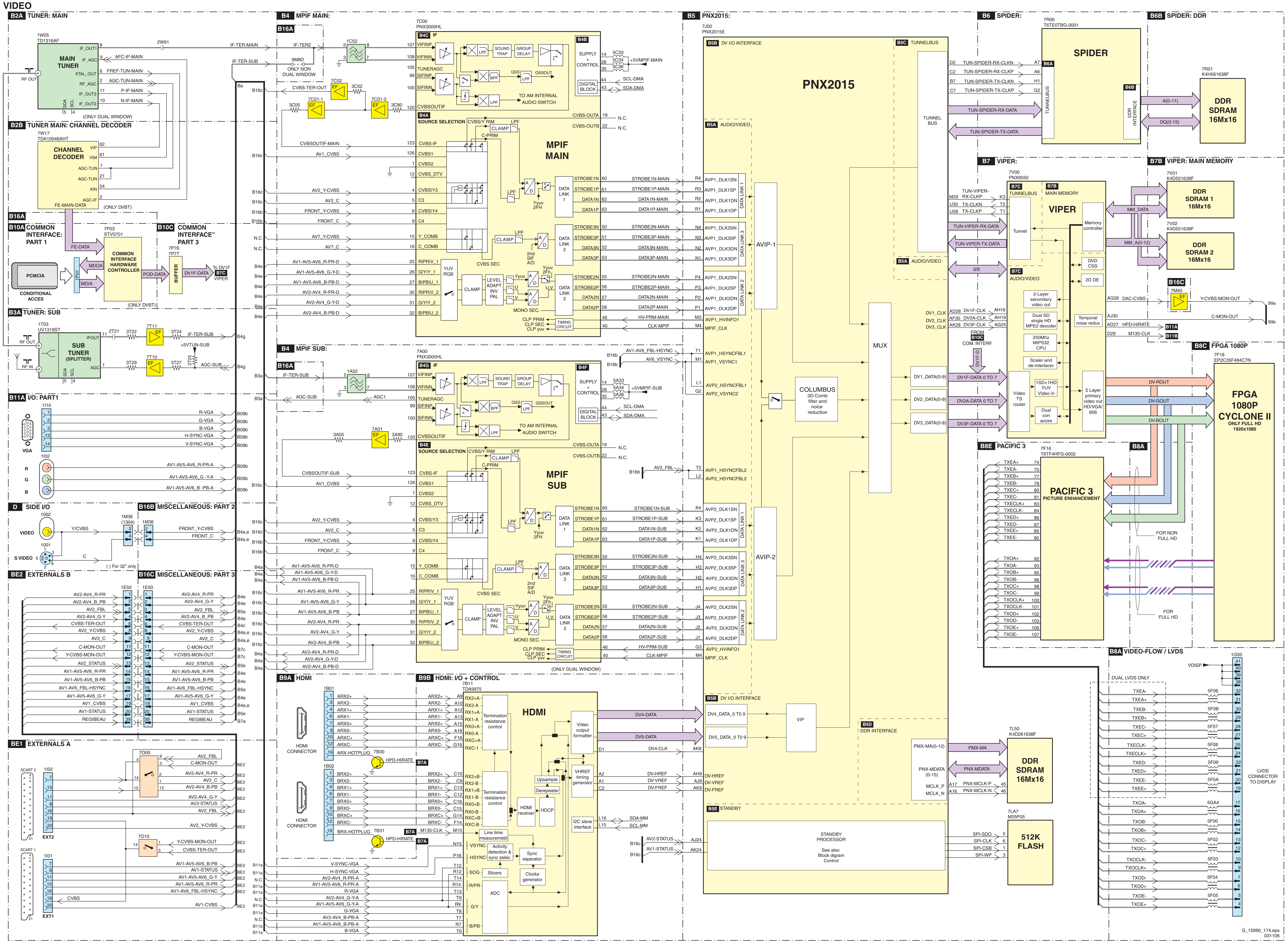
G_15990_179.eps
311006

Block Diagram Display Supply 24V (Sanken)

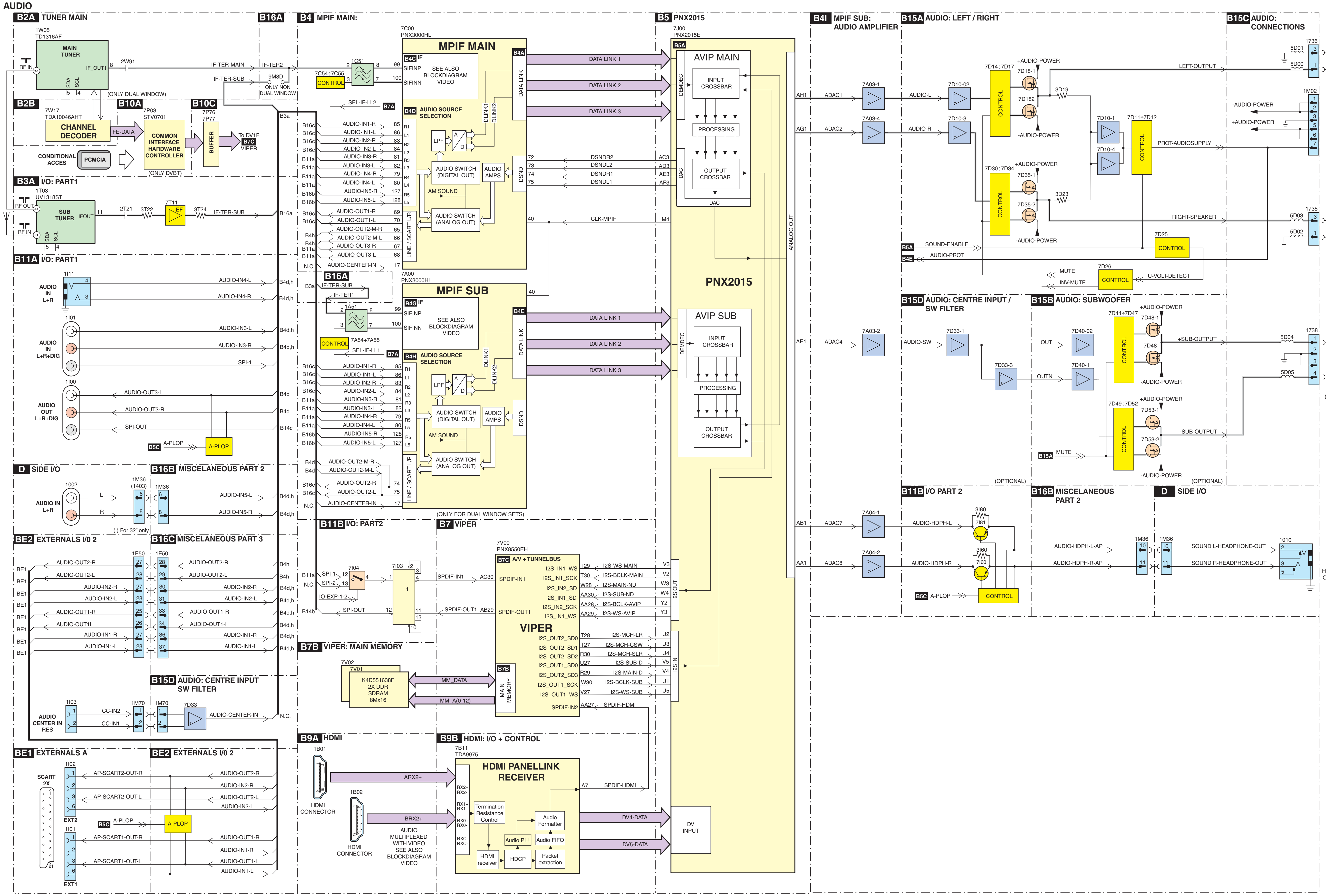

DISPLAY SUPPLY 24V OUT (Sanken)
Vin: 90 - 276 Vac
Freq: 48 - 65 Hz
AC-IN
1308
1319
DISPLAY SUPPLY
1. +24V
2. +24V
3. +24V
4. +24V
5. +24V
6. GND
7. GND
8. GND
9. GND
10. GND
11. BOOST
12. ON/OFF
13. DIM-CONTROL
14. Select PWM-ANA
1316
DISPLAY SUPPLY
1. +24V
2. +24V
3. +24V
4. +24V
5. +24V
6. GND
7. GND
8. GND
9. GND
10. GND
11. BOOST
12. ON/OFF
1M08
1M10
1P02
1P22
1P10
AC-IN FOR
PLATFORM-PSU
P: 15W
400V FOR
PLATFORM-PSU
P: 65W
CONTROL:
1. DIM CONTROL
2. POWER GOOD
3. LIGHT ON/OFF
4. GND
5. BOOST
6. N.C.
7. STANDBY
8. N.C.
9. +5V2
10. N.C.
AMBIENT LIGHT
1. +12V
2. +12V
3. +12V
4. +12V
5. GND
6. GND
PRIMARY SIDE
SECONDARY SIDE

G_15972_007.eps
311006

Block Diagram Video


VIDEO
B2A TUNER: MAIN
MAIN TUNER
1W05 TD1316AF
RF OUT
IF-TER-MAIN
AFC-IF-MAIN
FREF-TUN-MAIN
AGC-TUN-MAIN
P-IF-MAIN
N-IF-MAIN
(ONLY DUAL WINDOW)
B2B TUNER MAIN: CHANNEL DECODER
7W17 TDA10046AHT
CHANNEL DECODER
FE-MAIN-DATA
(ONLY DVBT)
B16A
B10A COMMON INTERFACE: PART 1
B10C COMMON INTERFACE" PART 3
7P03 STV0701
COMMON INTERFACE HARDWARE CONTROLLER
PCMCIA
CONDITIONAL ACCES
FE-DATA
MDOA
MDIA
POD-DATA
BUFFER
DV1F-DATA
To DV1F B7C VIPER
(ONLY DVBT)
B3A TUNER: SUB
1T03 UV1318ST
SUB TUNER (SPLITTER)
IF-TER-SUB
+5VTUN-SUB
AGC-SUB
B11A I/O: PART1
1I10
R-VGA
G-VGA
B-VGA
H-SYNC-VGA
V-SYNC-VGA
VGA
1I02
AV1-AV5-AV6_R-PR-A
AV1-AV5-AV6_G -Y-A
AV1-AV5-AV6_B -PB-A
D SIDE I/O
B16B MISCELLANEOUS: PART 2
VIDEO
S VIDEO
Y/CVBS
FRONT_Y-CVBS
FRONT_C
( ) For 32" only
BE2 EXTERNALS B
B16C MISCELLANEOUS: PART 3
BE1 EXTERNALS A
SCART 2
EXT2
SCART 1
EXT1
B4 MPIF MAIN:
7C00 PNX3000HL
IF
SOUND TRAP
GROUP DELAY
SUPPLY + CONTROL
DIGITAL BLOCK
+5VMPIF-MAIN
SCL-DMA
SDA-DMA
TO AM INTERNAL AUDIO SWITCH
SOURCE SELECTION
MPIF MAIN
CLAMP
DATA LINK 1
DATA LINK 3
DATA LINK 2
STROBE1N-MAIN
STROBE1P-MAIN
DATA1N-MAIN
DATA1P-MAIN
STROBE3N-MAIN
STROBE3P-MAIN
DATA3N-MAIN
DATA3P-MAIN
STROBE2N-MAIN
STROBE2P-MAIN
DATA2N-MAIN
DATA2P-MAIN
HV-PRM-MAIN
CLK-MPIF
TIMING CIRCUIT
YUV RGB
LEVEL ADAPT INV. PAL
MONO SEC.
CVBS SEC
B4 MPIF SUB:
7A00 PNX3000HL
+5VMPIF-SUB
MPIF SUB
STROBE1N-SUB
STROBE1P-SUB
DATA1N-SUB
DATA1P-SUB
STROBE3N-SUB
STROBE3P-SUB
DATA3N-SUB
DATA3P-SUB
STROBE2N-SUB
STROBE2P-SUB
DATA2N-SUB
DATA2P-SUB
HV-PRM-SUB
CLK-MPIF
(ONLY DUAL WINDOW)
B9A HDMI
B9B HDMI: I/O + CONTROL
7B11 TDA9975
HDMI CONNECTOR
HDMI
Termination resistance control
Video output formatter
VHREF timing generator
Upsample
Derepeater
HDMI receiver
HDCP
I2C slave interface
Line time measurement
Activity detection & sync selec.
Sync separator
Slicers
Clocks generator
ADC
HPD-HIRATE
B5 PNX2015:
7J00 PNX2015E
B5B DV I/O INTERFACE
B5C TUNNELBUS
PNX2015
TUNNEL BUS
B5A AUDIO/VIDEO
AVIP-1
AVIP-2
MUX
COLUMBUS 3D Comb filter and noise reduction
VIP
B5D DDR INTERFACE
B5E STANDBY
STANDBY PROCESSOR See also Block diagram Control
DV4-DATA
DV5-DATA
DV4-CLK
DV-HREF
DV-VREF
DV-FREF
SDA-MM
SCL-MM
AV2-STATUS
AV1-STATUS
B6 SPIDER:
7R00 T6TE0TBG-0001
SPIDER
TUN-SPIDER-RX-CLKN
TUN-SPIDER-RX-CLKP
TUN-SPIDER-TX-CLKN
TUN-SPIDER-TX-CLKP
TUN-SPIDER-RX-DATA
TUN-SPIDER-TX-DATA
B6B SPIDER: DDR
7R01 K4H561638F
DDR SDRAM 16Mx16
A(0-11)
DQ(0-15)
B7 VIPER:
7V00 PNX8550
VIPER
B7C TUNNELBUS
B7B MAIN MEMORY
TUN-VIPER-RX-DATA
TUN-VIPER-TX-DATA
I2S
Memory controller
DVD CSS
2D DE
2-Layer secondary video out
Dual SD single HD MPE2 decoder
250Mhz MIPS32 CPU
Scaler and de-interlacer
Temporal noise redux
Video TS router
1SD+1HD YUV Video in
Dual con acces
5 Layer primary video out HD/VGA/656
B7B VIPER: MAIN MEMORY
7V01 K4D551638F
DDR SDRAM 1 16Mx16
7V02 K4D551638F
DDR SDRAM 2 16Mx16
MM_DATA
MM_A(0-12)
B16C
7M40
Y-CVBS-MON-OUT
C-MON-OUT
HPD-HIRATE
M135-CLK
DV1F-DATA 0 TO 7
DV2A-DATA 0 TO 7
DV3F-DATA 0 TO 7
B8C FPGA 1080P
7F18 EP2C35F484C7N
FPGA 1080P CYCLONE II
ONLY FULL HD 1920x1080
DV-ROUT
DV-GOUT
DV-BOUT
B8E PACIFIC 3
7F16 T6TF4HFG-0002
PACIFIC 3 PICTURE ENHANCEMENT
FOR NON FULL HD
FOR FULL HD
B8A VIDEO-FLOW / LVDS
DUAL LVDS ONLY
LVDS CONNECTOR TO DISPLAY
VDISP
7L50 K4D261638F
DDR SDRAM 16Mx16
PMX-MA
PNX-MDATA
PNX-MCLK-P
PNX-MCLK-N
7LA7 M25P05
512K FLASH
SPI-SDO
SPI-CLK
SPI-CSB
SPI-WP
G_15990_174.eps 031106

Block Diagram Audio


AUDIO
B2A TUNER MAIN
MAIN TUNER
1W05 TD1316AF
RF IN
IF_OUT1
2W91
IF-TER-MAIN
IF-TER-SUB
(ONLY DUAL WINDOW)
B16A
9M8D ONLY NON DUAL WINDOW
B2B
7W17 TDA10046AHT
CHANNEL DECODER
FE-DATA
B10A
7P03 STV0701
COMMON INTERFACE HARDWARE CONTROLLER
B10C
7P76 7P77
BUFFER
To DV1F B7C VIPER
CONDITIONAL ACCES
PCMCIA
(ONLY DVBT)
B3A I/O: PART1
1T03 UV1318ST
SUB TUNER
IFOUT
2T21
3T22
7T11 EF
3T24
RF OUT
B11A I/O: PART1
1I11
AUDIO IN L+R
AUDIO-IN4-L
AUDIO-IN4-R
1I01
AUDIO IN L+R+DIG
AUDIO-IN3-L
AUDIO-IN3-R
SPI-1
1I00
AUDIO OUT L+R+DIG
AUDIO-OUT3-L
AUDIO-OUT3-R
SPI-OUT
B5C A-PLOP
A-PLOP
D SIDE I/O
1002
AUDIO IN L+R
1M36 (1403)
B16B MISCELANEOUS PART 2
AUDIO-IN5-L
AUDIO-IN5-R
( ) For 32" only
BE2 EXTERNALS I/0 2
B16C MISCELANEOUS PART 3
1E50
AUDIO-OUT2-R
AUDIO-OUT2-L
AUDIO-IN2-R
AUDIO-IN2-L
AUDIO-OUT1-R
AUDIO-OUT1-L
AUDIO-IN1-R
AUDIO-IN1-L
B15D AUDIO: CENTRE INPUT SW FILTER
1I03
AUDIO CENTER IN RES
CC-IN2
CC-IN1
1M70
7D33
AUDIO-CENTER-IN
BE1 EXTERNALS A
BE2 EXTERNALS I/0 2
SCART 2X
1I02 EXT2
AP-SCART2-OUT-R
AP-SCART2-OUT-L
1I01 EXT1
AP-SCART1-OUT-R
AP-SCART1-OUT-L
B4 MPIF MAIN:
7C00 PNX3000HL
MPIF MAIN
1C51
7C54÷7C55
CONTROL
SEL-IF-LL2
B4C IF
SIFINP
SIFINN
SEE ALSO BLOCKDIAGRAM VIDEO
B4D AUDIO SOURCE SELECTION
LPF
AUDIO SWITCH (DIGITAL OUT)
AUDIO AMPS
AM SOUND
AUDIO SWITCH (ANALOG OUT)
DLINK1
DLINK2
DATA LINK
DSND
LINE / SCART L/R
AUDIO-IN1-R
AUDIO-IN1-L
AUDIO-IN2-R
AUDIO-IN2-L
AUDIO-IN3-R
AUDIO-IN3-L
AUDIO-IN4-R
AUDIO-IN4-L
AUDIO-IN5-R
AUDIO-IN5-L
AUDIO-OUT1-R
AUDIO-OUT1-L
AUDIO-OUT2-M-R
AUDIO-OUT2-M-L
AUDIO-OUT3-R
AUDIO-OUT3-L
AUDIO-CENTER-IN
B16A
IF-TER-SUB
IF-TER1
7A00 PNX3000HL
MPIF SUB
7A51
7A54÷7A55
SEL-IF-LL1
B4G IF
B4H AUDIO SOURCE SELECTION
B4E
AUDIO-OUT2-R
AUDIO-OUT2-L
(ONLY FOR DUAL WINDOW SETS)
B11B I/O: PART2
SPI-1
SPI-2
IO-EXP-1-2
SPI-OUT
7I04
7I03
B7 VIPER
7V00 PNX8550EH
B7C A/V + TUNNELBUS
SPDIF-IN1
SPDIF-OUT1
VIPER
I2S_IN1_WS
I2S_IN1_SCK
I2S_IN2_SD
I2S_IN1_SD
I2S_IN2_SCK
I2S_IN1_WS
I2S_OUT2_SD0
I2S_OUT2_SD1
I2S_OUT2_SD2
I2S_OUT1_SD0
I2S_OUT2_SD3
I2S_OUT1_SCK
I2S_OUT1_WS
SPDIF-IN2
I2S-WS-MAIN
I2S-BCLK-MAIN
I2S-MAIN-ND
I2S-SUB-ND
I2S-BCLK-AVIP
I2S-WS-AVIP
I2S-MCH-LR
I2S-MCH-CSW
I2S-MCH-SLR
I2S-SUB-D
I2S-MAIN-D
I2S-BCLK-SUB
I2S-WS-SUB
SPDIF-HDMI
B7B VIPER: MAIN MEMORY
7V02
7V01
K4D551638F 2X DDR SDRAM 8Mx16
MM_DATA
MM_A(0-12)
MAIN MEMORY
B9A HDMI
1B01
HDMI CONNECTOR
1B02
HDMI CONNECTOR
ARX2+
BRX2+
AUDIO MULTIPLEXED WITH VIDEO SEE ALSO BLOCKDIAGRAM VIDEO
B9B HDMI: I/O + CONTROL
7B11 TDA9975
HDMI PANELLINK RECEIVER
Termination Resistance Control
Audio Formatter
Audio PLL
Audio FIFO
HDMI receiver
HDCP
Packet extraction
DV4-DATA
DV5-DATA
DV INPUT
B5 PNX2015
7J00 PNX2015E
B5A
AVIP MAIN
DEMDEC
INPUT CROSSBAR
PROCESSING
OUTPUT CROSSBAR
DAC
DATA LINK 1
DATA LINK 2
DATA LINK 3
DSNDR2
DSNDL2
DSNDR1
DSNDL1
CLK-MPIF
PNX2015
AVIP SUB
ANALOG OUT
I2S OUT
I2S IN
B4I MPIF SUB: AUDIO AMPLIFIER
B15A AUDIO: LEFT / RIGHT
ADAC1
ADAC2
7A03-1
7A03-4
AUDIO-L
AUDIO-R
7D10-02
7D10-3
7D14÷7D17
CONTROL
+AUDIO-POWER
-AUDIO-POWER
7D18-1
7D182
3D19
7D10-1
7D10-4
7D11÷7D12
PROT-AUDIOSUPPLY
7D30÷7D34
7D35-1
7D35-2
3D23
LEFT-OUTPUT
RIGHT-SPEAKER
7D25
SOUND-ENABLE
AUDIO-PROT
7D26
MUTE
INV-MUTE
U-VOLT-DETECT
B15C AUDIO: CONNECTIONS
1736
5D01
5D00
LEFT SPEAKER
1M02
TO SUPPLY
1735
5D03
5D02
RIGHT SPEAKER
B15D AUDIO: CENTRE INPUT / SW FILTER
ADAC4
7A03-2
AUDIO-SW
7D33-1
7D33-3
B15B AUDIO: SUBWOOFER
OUT
OUTN
7D40-02
7D40-1
7D44÷7D47
7D48-1
7D48
+SUB-OUTPUT
7D49÷7D52
7D53-1
7D53-2
-SUB-OUTPUT
1738
5D04
5D05
SUB WOOFER (OPTIONAL)
(OPTIONAL)
B11B I/O PART 2
ADAC7
ADAC8
7A04-1
7A04-2
AUDIO-HDPH-L
AUDIO-HDPH-R
3I80
7I81
3I60
7I60
B16B MISCELANEOUS PART 2
AUDIO-HDPH-L-AP
AUDIO-HDPH-R-AP
D SIDE I/O
1M36
SOUND L-HEADPHONE-OUT
SOUND R-HEADPHONE-OUT
1010
Headphone Out 3.5mm

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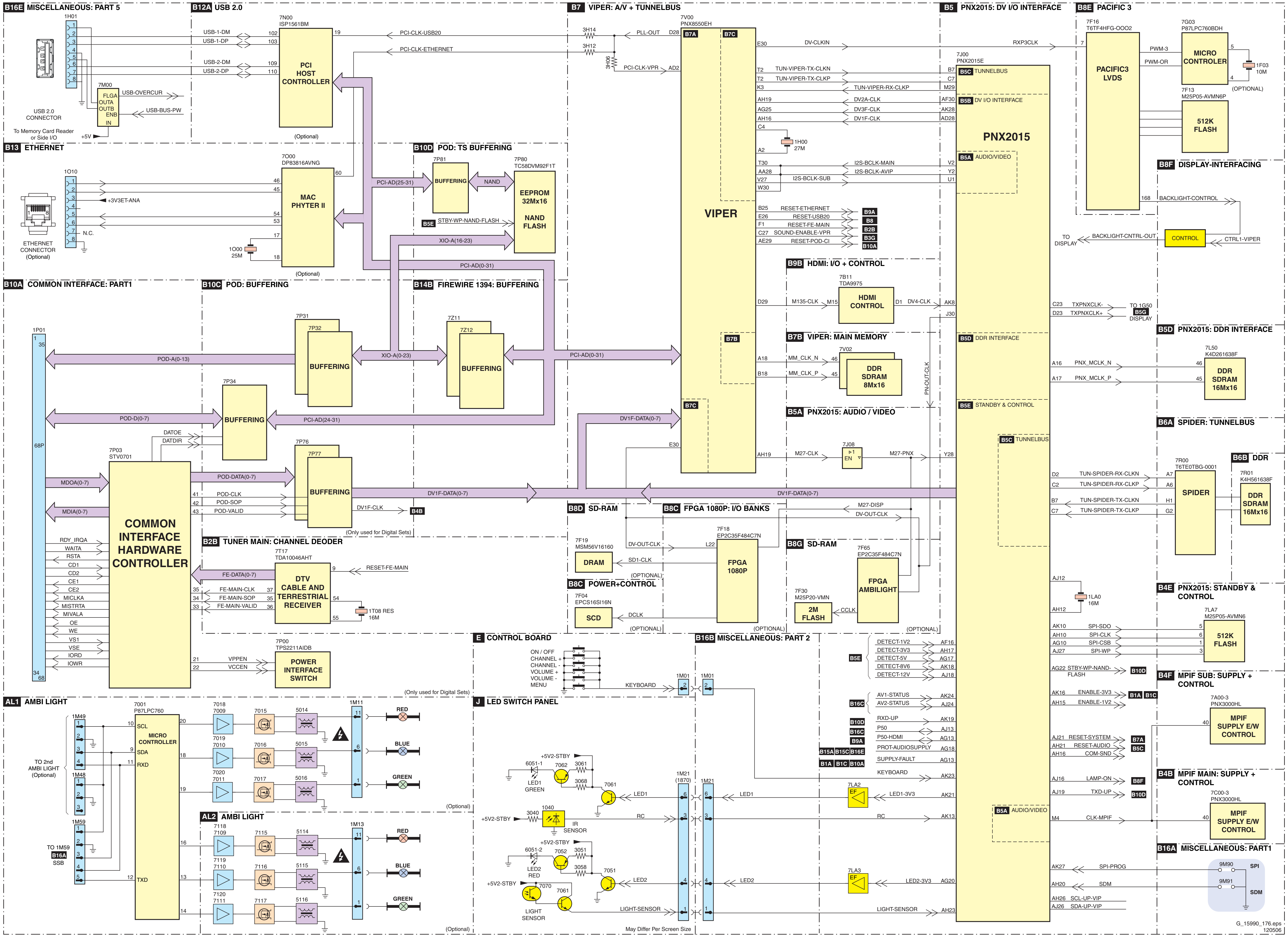
Block Diagram Control & Clock Signals

CONTROL & CLOCK SIGNALS


B16E MISCELLANEOUS: PART 5
1H01
USB 2.0 CONNECTOR
To Memory Card Reader or Side I/O
7M00
FLGA
OUTA
OUTB
ENB
IN
USB-OVERCUR
USB-BUS-PW
+5V
B12A USB 2.0
7N00
ISP1561BM
USB-1-DM
USB-1-DP
USB-2-DM
USB-2-DP
PCI HOST CONTROLLER
(Optional)
PCI-CLK-USB20
PCI-CLK-ETHERNET
B7 VIPER: A/V + TUNNELBUS
7V00
PNX8550EH
3H14
3H12
3H06
PLL-OUT
PCI-CLK-VPR
B7A
B7C
B7B
VIPER
E30
DV-CLKIN
TUN-VIPER-TX-CLKN
TUN-VIPER-TX-CLKP
TUN-VIPER-RX-CLKP
DV2A-CLK
DV3F-CLK
DV1F-CLK
1H00
27M
I2S-BCLK-MAIN
I2S-BCLK-AVIP
I2S-BCLK-SUB
RESET-ETHERNET
RESET-USB20
RESET-FE-MAIN
SOUND-ENABLE-VPR
RESET-POD-CI
B9A
B8
B2B
B3G
B10A
B5 PNX2015: DV I/O INTERFACE
RXP3CLK
7J00
PNX2015E
B5C TUNNELBUS
B5B DV I/O INTERFACE
PNX2015
B5A AUDIO/VIDEO
B5D DDR INTERFACE
B5E STANDBY & CONTROL
B8E PACIFIC 3
7F16
T6TF4HFG-OOO2
PACIFIC3 LVDS
7G03
P87LPC760BDH
MICRO CONTROLER
PWM-3
PWM-OR
1F03
10M
(OPTIONAL)
7F13
M25P05-AVMN6P
512K FLASH
B8F DISPLAY-INTERFACING
BACKLIGHT-CONTROL
TO DISPLAY
BACKLIGHT-CNTRL-OUT
CONTROL
CTRL1-VIPER
B13 ETHERNET
1O10
+3V3ET-ANA
N.C.
ETHERNET CONNECTOR (Optional)
7O00
DP83816AVNG
MAC PHYTER II
1O00
25M
(Optional)
B10D POD: TS BUFFERING
7P81
BUFFERING
NAND
7P80
TC58DVM92F1T
EEPROM 32Mx16
NAND FLASH
PCI-AD(25-31)
B5E
STBY-WP-NAND-FLASH
XIO-A(16-23)
PCI-AD(0-31)
B9B HDMI: I/O + CONTROL
7B11
TDA9975
M135-CLK
HDMI CONTROL
DV4-CLK
TXPNXCLK-
TXPNXCLK+
TO 1G50
B5G
DISPLAY
B10A COMMON INTERFACE: PART1
1P01
68P
B10C POD: BUFFERING
7P31
7P32
BUFFERING
7P34
POD-A(0-13)
XIO-A(0-23)
B14B FIREWIRE 1394: BUFFERING
7Z11
7Z12
BUFFERING
PCI-AD(0-31)
B7B VIPER: MAIN MEMORY
7V02
MM_CLK_N
MM_CLK_P
DDR SDRAM 8Mx16
PN-OUT-CLK
B5D PNX2015: DDR INTERFACE
7L50
K4D261638F
PNX_MCLK_N
PNX_MCLK_P
DDR SDRAM 16Mx16
POD-D(0-7)
PCI-AD(24-31)
DV1F-DATA(0-7)
B5A PNX2015: AUDIO / VIDEO
7J08
EN
M27-CLK
M27-PNX
B6A SPIDER: TUNNELBUS
B5C TUNNELBUS
7R00
T6TE0TBG-0001
SPIDER
B6B DDR
7R01
K4H561638F
DDR SDRAM 16Mx16
TUN-SPIDER-RX-CLKN
TUN-SPIDER-RX-CLKP
TUN-SPIDER-TX-CLKN
TUN-SPIDER-TX-CLKP
DATOE
DATDIR
7P03
STV0701
COMMON INTERFACE HARDWARE CONTROLLER
MDOA(0-7)
MDIA(0-7)
7P76
7P77
BUFFERING
POD-DATA(0-7)
POD-CLK
POD-SOP
POD-VALID
DV1F-CLK
B4B
(Only used for Digital Sets)
RDY_IRQA
WAITA
RSTA
CD1
CD2
CE1
CE2
MICLKA
MISTRTA
MIVALA
OE
WE
VS1
VSE
IORD
IOWR
B8D SD-RAM
7F19
MSM56V16160
DRAM
DV-OUT-CLK
SD1-CLK
(OPTIONAL)
B8C FPGA 1080P: I/O BANKS
7F18
EP2C35F484C7N
FPGA 1080P
M27-DISP
DV-OUT-CLK
B8G SD-RAM
7F65
EP2C35F484C7N
FPGA AMBILIGHT
7F30
M25P20-VMN
2M FLASH
CCLK
B8C POWER+CONTROL
7F04
EPCS16SI16N
SCD
DCLK
(OPTIONAL)
B2B TUNER MAIN: CHANNEL DEODER
7T17
TDA10046AHT
FE-DATA(0-7)
RESET-FE-MAIN
DTV CABLE AND TERRESTRIAL RECEIVER
FE-MAIN-CLK
FE-MAIN-SOP
FE-MAIN-VALID
1T08 RES
16M
7P00
TPS2211AIDB
VPPEN
VCCEN
POWER INTERFACE SWITCH
(Only used for Digital Sets)
1LA0
16M
B4E PNX2015: STANDBY & CONTROL
7LA7
M25P05-AVMN6
SPI-SDO
SPI-CLK
SPI-CSB
SPI-WP
512K FLASH
STBY-WP-NAND-FLASH
B10D
B4F MPIF SUB: SUPPLY + CONTROL
ENABLE-3V3
ENABLE-1V2
B1A
B1C
7A00-3
PNX3000HL
MPIF SUPPLY E/W CONTROL
RESET-SYSTEM
RESET-AUDIO
COM-SND
B7A
B5C
B4B MPIF MAIN: SUPPLY + CONTROL
LAMP-ON
TXD-UP
B8F
B10D
7C00-3
PNX3000HL
CLK-MPIF
MPIF SUPPLY E/W CONTROL
B16A MISCELLANEOUS: PART1
SPI-PROG
SDM
SCL-UP-VIP
SDA-UP-VIP
9M90
9M91
SPI
SDM
E CONTROL BOARD
ON / OFF
CHANNEL +
CHANNEL -
VOLUME +
VOLUME -
MENU
KEYBOARD
1M01
B16B MISCELLANEOUS: PART 2
DETECT-1V2
DETECT-3V3
DETECT-5V
DETECT-8V6
DETECT-12V
B5E
AV1-STATUS
AV2-STATUS
B16C
RXD-UP
P50
P50-HDMI
PROT-AUDIOSUPPLY
SUPPLY-FAULT
KEYBOARD
B10D
B16C
B9A
B15A
B15C
B16E
B1A
B1C
B10A
7LA2
LED1-3V3
RC
7LA3
LED2-3V3
LIGHT-SENSOR
B5A AUDIO/VIDEO
AL1 AMBI LIGHT
1M49
TO 2nd AMBI LIGHT (Optional)
1M48
1M59
TO 1M59
B16A
SSB
7001
P87LPC760
SCL
MICRO CONTROLLER
SDA
RXD
TXD
7018
7009
7015
5014
7019
7010
7016
5015
7020
7011
7017
5016
1M11
RED
BLUE
GREEN
(Optional)
AL2 AMBI LIGHT
7118
7109
7115
5114
7119
7110
7116
5115
7120
7111
7117
5116
1M13
RED
BLUE
GREEN
(Optional)
J LED SWITCH PANEL
+5V2-STBY
6051-1
LED1 GREEN
7062
3061
3068
7061
LED1
3040
1040
IR SENSOR
RC
+5V2-STBY
6051-2
LED2 RED
7052
3051
3058
7051
LED2
7070
7061
LIGHT SENSOR
LIGHT-SENSOR
1M21 (1870)
1M21
May Differ Per Screen Size
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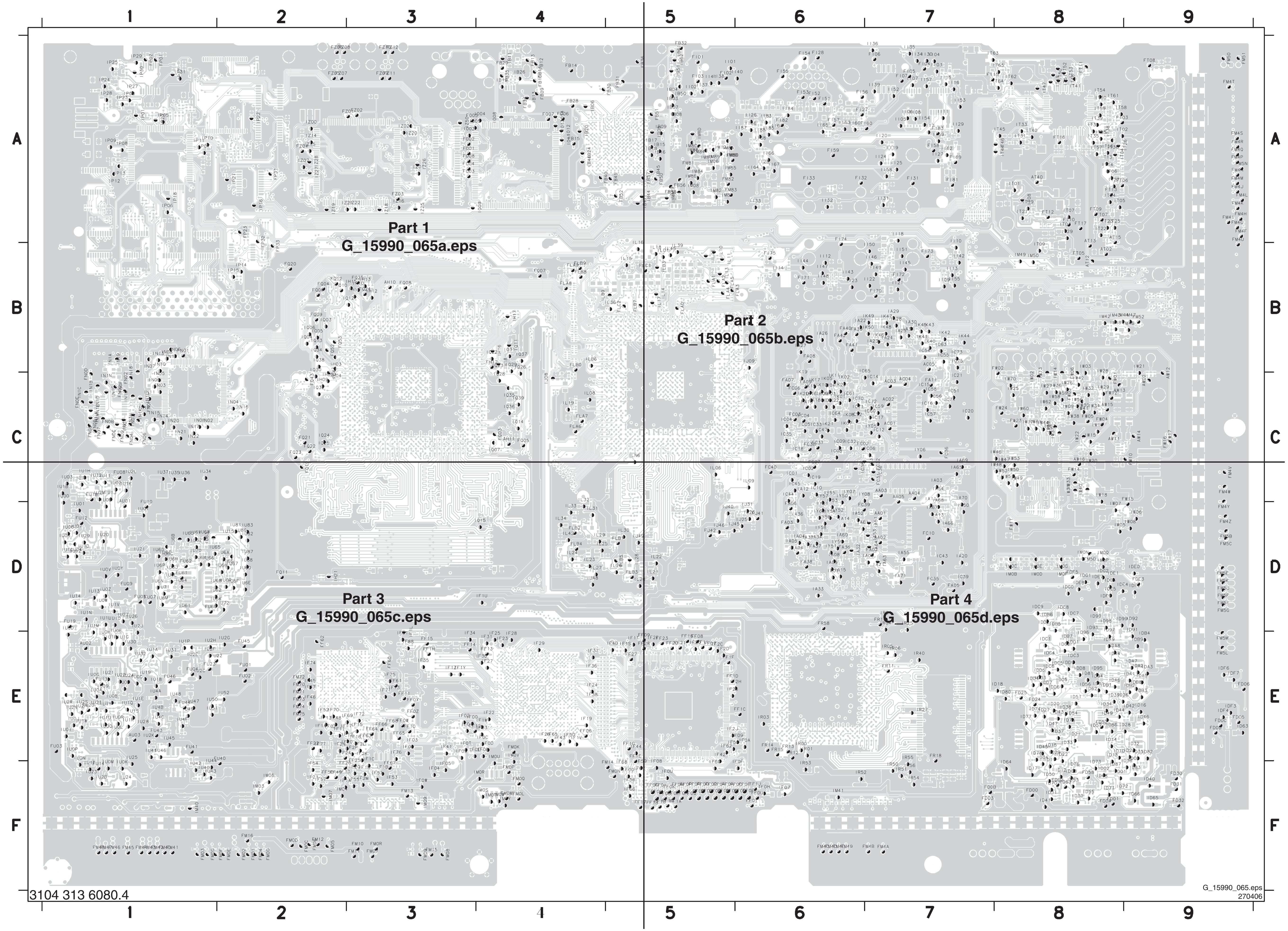
120506

Test Point Overview SSB (Bottom Side)


1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
Part 1
G_15990_065a.eps
Part 2
G_15990_065b.eps
Part 3
G_15990_065c.eps
Part 4
G_15990_065d.eps
3104 313 6080.4
G_15990_065.eps
270406

Test Point Overview SSB (Mapping)

A01	E1
A02	E1
A03	D1
A04	C7
A05	C7
A06	C7
A07	C7
A08	C7
A09	D7
A10	C8
A11	C8
A12	C9
A13	C8
A14	C9
A15	C8
A16	C9
A17	A8
A18	A8
A19	B8
A20	B8
A21	B8
A22	C4
A23	B3
A24	B7
A25	C7
A26	C7
A27	D7
AA01	D7
AA02	D7
AA03	C7
AA04	C7
AA05	C7
AC01	C7
AC02	C7
AC03	C7
AC04	C7
AC05	B7
AH10	B3
AH11	C4
AT02	B8
AT12	B8
AT13	A8
AT15	A8
AT40	A8
AU01	C1
AU02	E1
AU03	E1
AW02	C9
AW11	C8
AW12	C9
AW13	C8
AW14	C9
AW15	C8
AW16	C8
F001	B5
F002	B5
F003	D5
F004	D4
F005	D5
F006	D4
F007	D5
F008	B4
F009	C4
F010	C4
F011	B5
F012	B5
F013	B5
F014	B5
F015	B5
F016	B5
F017	D5
F018	B5
F019	B4
F020	B4
F021	B4
F022	D6
F023	B4
F024	E1
F025	E2
F026	E2
F027	A7
F028	A7
F029	A5
F030	A5
F031	A5
F032	F5
F033	E5
F034	E6
F035	F5
F036	F5
F037	F5
F038	F5
F039	F5
F040	E5
F041	E3
F042	F6
F043	F6
F044	F5
F045	F5
F046	F5
F047	F5
F048	F5
F049	E5
F050	E5
F051	E5
F052	E4
F053	F5
F054	F5
F055	F5
F056	F5
F057	F5
F058	F5
F059	F5
F060	F6
F061	F6
F062	F6
F063	F6
F064	F5
F065	F5
F066	F5
F067	F5
F068	F5
F069	F5
F070	F5
F071	F5
F072	F2
F073	F2
F074	A2
F075	A3
F076	A3
F077	A3
F078	C8
F079	C8
F080	C9
F081	C9
F082	D9
F083	C8
F084	C8
F085	D8
F086	C9
F087	C8
F088	C8
F089	C8
F090	C8
F091	C8
F092	C8
F093	D1
F094	D1
F095	D1
F096	E1
F097	E2
F098	E1
F099	E1
F100	E1
F101	F2
F102	E1
F103	E1
F104	E1
F105	D1
F106	C1
F107	F1
F108	E1
F109	D1
F110	D1
F111	D1
F112	C1
F113	D1
F114	D1
F115	E1
F116	A8
F117	A8
F118	A7
F119	A8
F120	A8
F121	A8
F122	A8
F123	A8
F124	A9
F125	A8
F126	A8
F127	B8
F128	A8
F129	D6
F130	E7
F131	E6
F132	E6
F133	E6
F134	E6
F135	E7
F136	D7
F137	B2
F138	B2
F139	C2
F140	C2
F141	B3
F142	B3
F143	C2
F144	C2
F145	C2
F146	B2
F147	C2
F148	B2
F149	D2
F150	B2
F151	B2
F152	B3
F153	B4
F154	B2
F155	C4
F156	B2
F157	C4
F158	B2
F159	A2
F160	A2
F161	A2
F162	A1
F163	A1
F164	A3
F165	A4
F166	A4
F167	A3
F168	A3
F169	A3
F170	A3
F171	A3
F172	C1
F173	C1
F174	C1
F175	C1
F176	C1
F177	C1
F178	C1
F179	C1
F180	C1
F181	C1
F182	C1
F183	C1
F184	C1
F185	C1
F186	C1
F187	C1
F188	B1
F189	A5
F190	A5
F191	A5
F192	A5
F193	A5
F194	E2
F195	E2
F196	E2
F197	E2
F198	E2
F199	E2
F200	A9
F201	E9
F202	E9
F203	D9
F204	D9
F205	D9
F206	D9
F207	D9
F208	D9
F209	D8
F210	D9
F211	D9
F212	B9
F213	A9
F214	A9
F215	D9
F216	C9
F217	C9
F218	C9
F219	B9
F220	A9
F221	A9
F222	A9
F223	A9
F224	A9
F225	A9
F226	A9
F227	A9
F228	A9
F229	A9
F230	A9
F231	A9
F232	A9
F233	A9
F234	F6
F235	F6
F236	F6
F237	F7
F238	F7
F239	F6
F240	F1
F241	F1
F242	F1
F243	F1
F244	F1
F245	F1
F246	F1
F247	F1
F248	F1
F249	F2
F250	F3
F251	F5
F252	F3
F253	F2
F254	F3
F255	F3
F256	F3
F257	F4
F258	F4
F259	F5
F260	F4
F261	F4
F262	E4
F263	F1
F264	F1
F265	F2
F266	F2
F267	F2
F268	F3
F269	F3
F270	F3
F271	F2
F272	F2
F273	F2
F274	F1
F275	F2
F276	F2
F277	F2
F278	A7
F279	A6
F280	A7
F281	B6
F282	B6
F283	B7
F284	B7
F285	B6
F286	B7
F287	A7
F288	A7
F289	A6
F290	A7
F291	A6
F292	A6
F293	A6
F294	A6
F295	A6
F296	A6
F297	A6
F298	A6
F299	A6
F300	A7
F301	A6
F302	A6
F303	A7
F304	A7
F305	B4
F306	E3
F307	F3
F308	E3
F309	E3
F310	E3
F311	E3
F312	E2
F313	E3
F314	E3
F315	E5
F316	E5
F317	F2
F318	F3
F319	E2
F320	E5
F321	E2
F322	E5
F323	E5
F324	F6
F325	E5
F326	E3
F327	E5
F328	E5
F329	E3
F330	E3
F331	E4
F332	E3
F333	E3
F334	E3
F335	E3
F336	E3
F337	D8
F338	D9
F339	F8
F340	F8
F341	E8
F342	F9
F343	F9
F344	F9
F345	E8
F346	E8
F347	E9
F348	E9
F349	F7
F350	F8
F351	E9
F352	E9
F353	F7
F354	F8
F355	F8
F356	F8
F357	C6
F358	D6
F359	C6
F360	C6
F361	C7
F362	D7
F363	C7
F364	C7
F365	D7
F366	C6
F367	C6
F368	C6
F369	C6
F370	C6
F371	A5
F372	A5
F373	A5
F374	A5
F375	A5
F376	A5
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F378	A4
F379	A5
F380	A4
F381	A4
F382	A5
F383	A5
F384	A4
F385	A4
F386	A4
F387	A4
F388	A4
F389	A4
F390	A4
F391	A4
F392	A4
F393	A4
F394	B6
F395	B6
F396	B6
F397	B6
F398	D6
F399	D6
F400	D6
F401	C7
F402	C6
F403	C6
F404	B6
F405	C6
F406	D6
F407	D7
F408	D6
F409	D6
F410	D7
F411	A3
F412	A3
F413	A3
F414	A3
F415	A2
F416	A2
F417	A2
F418	A2
FA02	D7
FA03	D6
FA04	D6
FA05	D7
FA06	D6
FA07	C6
FA08	B6
FA09	C6
FA10	C6
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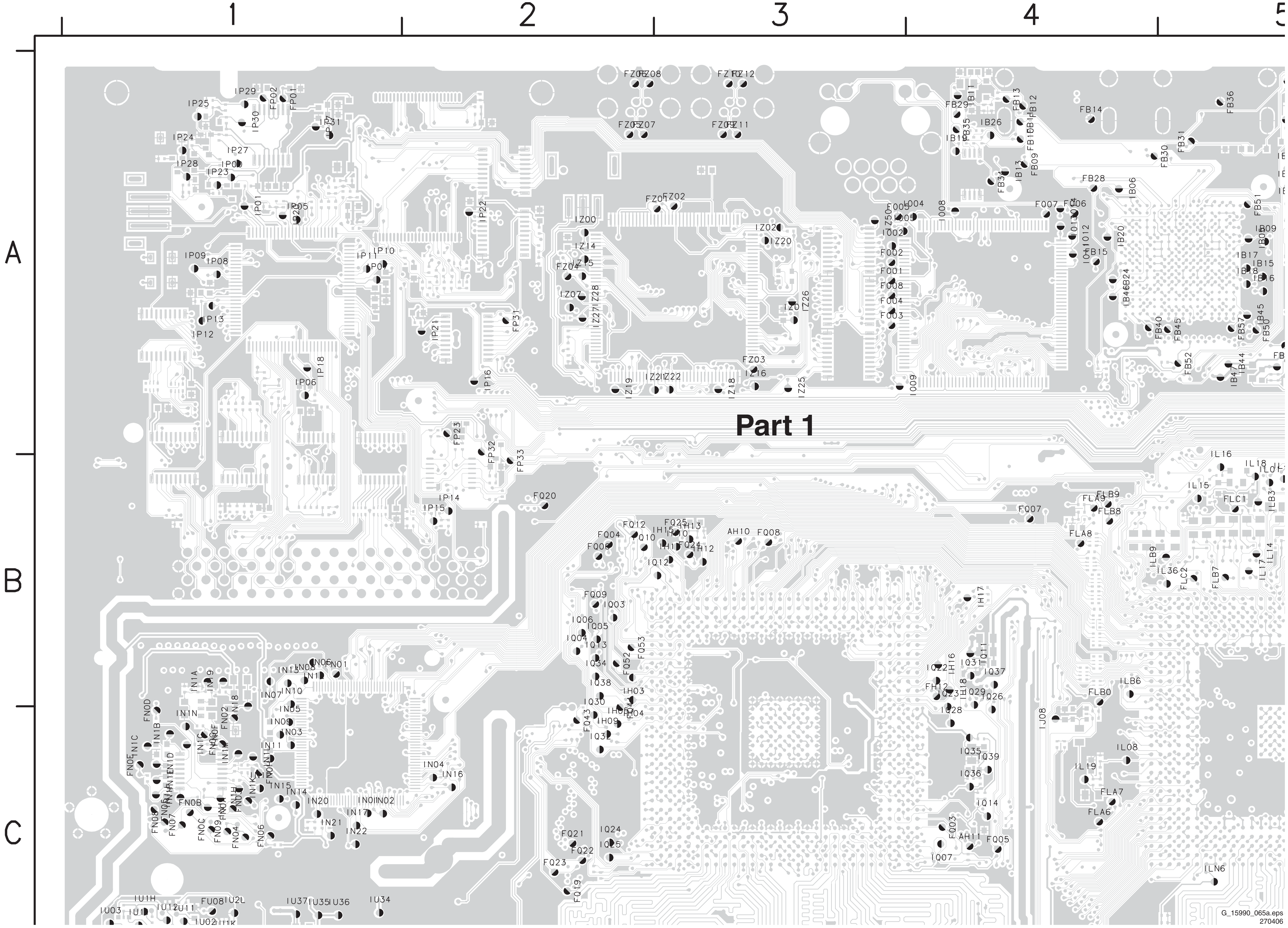
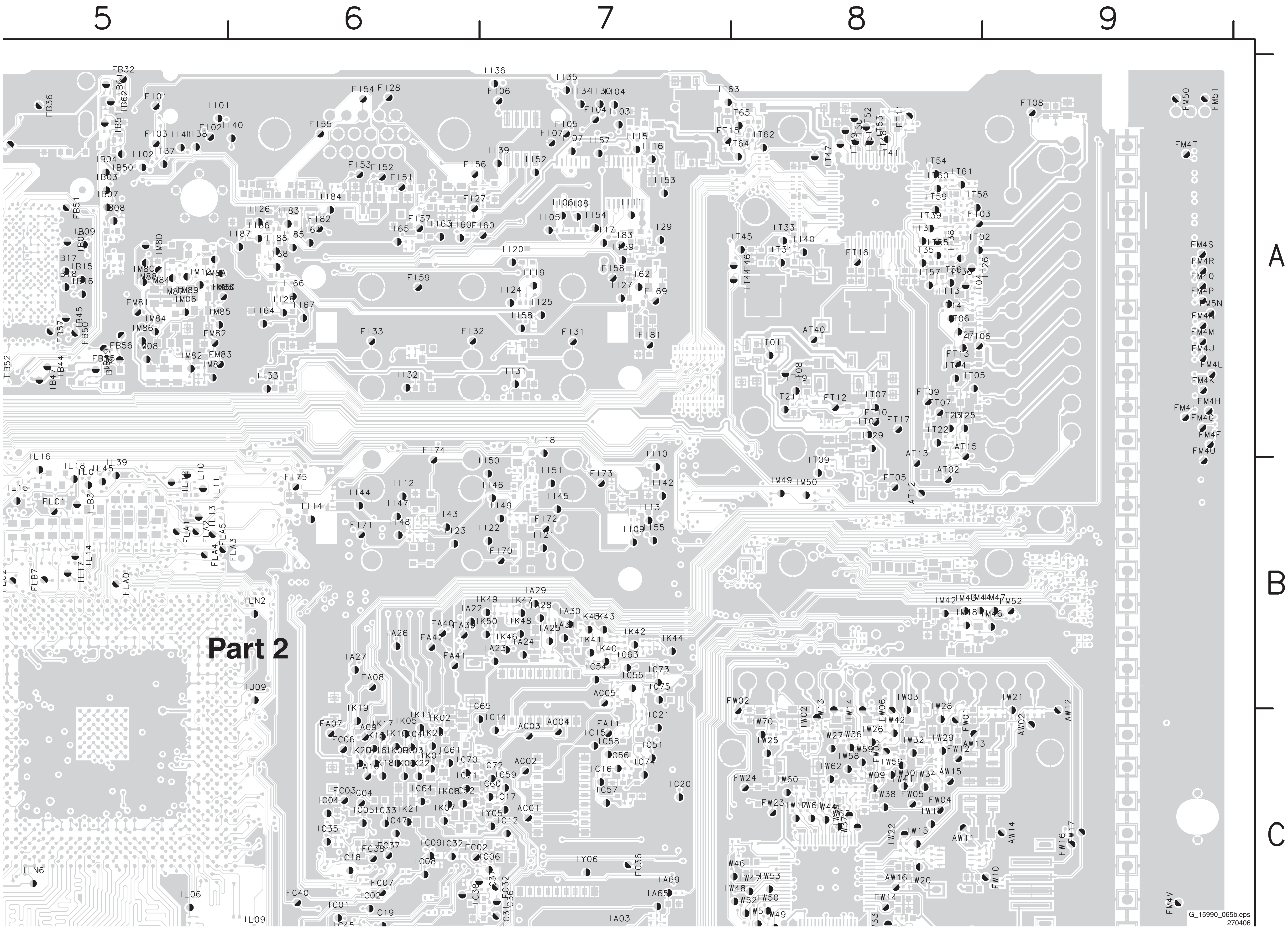
IU6M	D1
IU6N	D1
IU6P	D1
IU6R	D2
IU6S	D2
IU6T	D1
IU6U	D1
IU6V	D1
IU6W	D1
IU6Y	D1
IU6Z	D1
IU70	D1
IU71	D1
IU72	D2
IU80	D2
IU81	D2
IU82	D2
IU83	D2
IU87	D2
IU88	D2
IW02	C8
IW03	B8
IW05	D8
IW06	D9
IW07	D8
IW08	D9
IW09	C8
IW13	C8
IW14	C8
IW15	C8
IW16	C8
IW17	C8
IW18	C8
IW20	C8
IW21	B9
IW22	C8
IW25	C8
IW26	C8
IW27	C8
IW28	B8
IW29	C8
IW30	C8
IW31	C8
IW32	C8
IW33	C8
IW34	C8
IW36	C8
IW37	C8
IW38	C8
IW39	C8
IW40	C8
IW41	C8
IW42	C8
IW44	C8
IW46	C8
IW47	C8
IW48	C8
IW49	C8
IW50	C8
IW51	C8
IW52	C8
IW53	C8
IW56	C8
IW58	C8
IW59	C8
IW60	C8
IW61	C8
IW62	C8
IW63	C8
IW70	C8
IY05	C7
IY06	C7
IY07	C6
IY08	C6
IY50	C6
IY51	D6
IY52	D6
IY53	C6
IY54	D6
IY55	C6
IY56	D6
IY57	C6
IY58	D6
IY59	D6
IY60	D6
IY61	D6
IZ00	A2
IZ01	A3
IZ02	A3
IZ07	A2
IZ14	A2
IZ15	A2
IZ16	A3
IZ18	A3
IZ19	A2
IZ20	A3
IZ21	A3
IZ22	A3
IZ25	A3
IZ26	A3
IZ27	A2
IZ28	A2
IZ50	A3

G_15990_065m.eps
120506

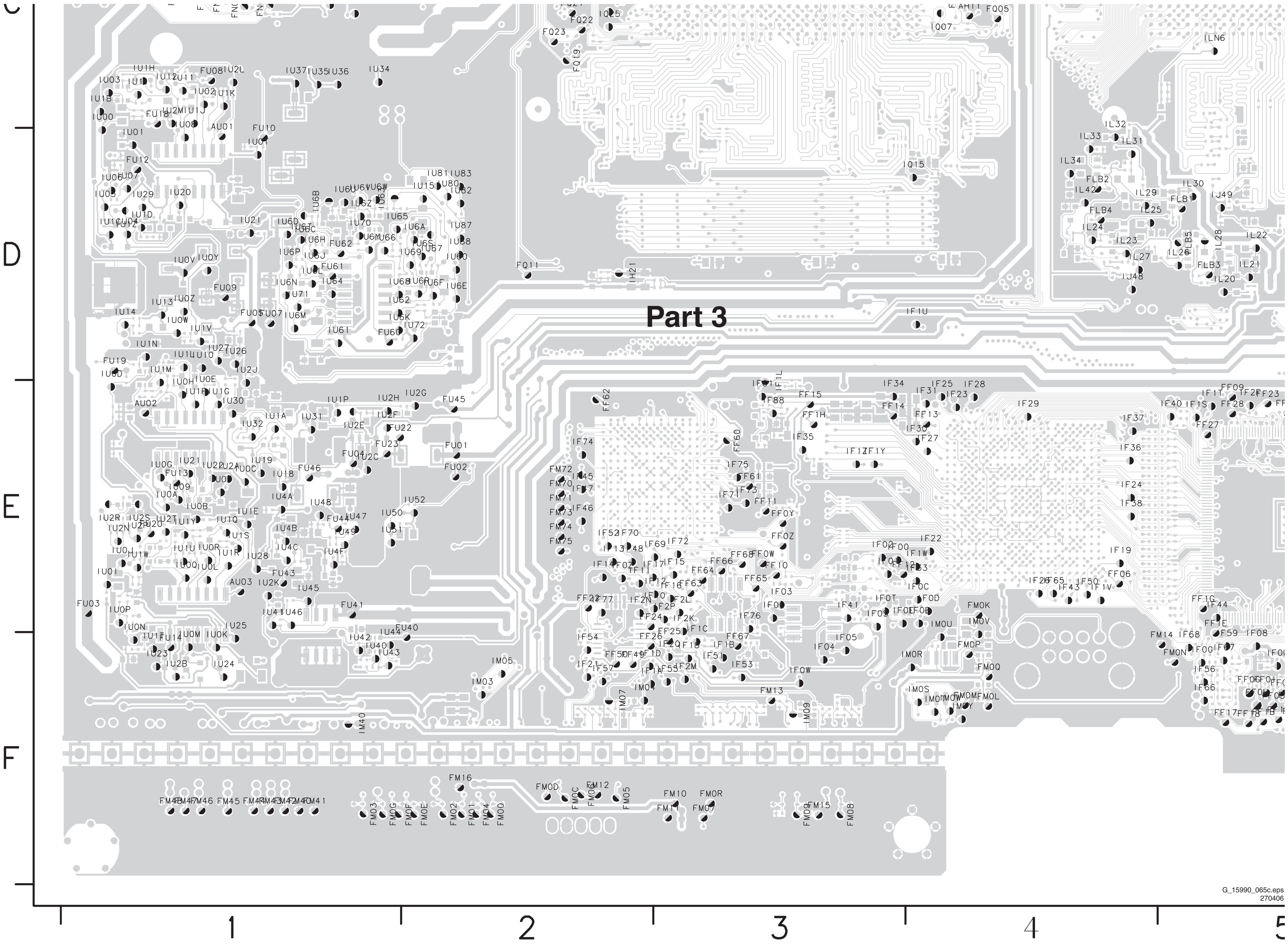
Test Point Overview SSB Part 1 (Bottom Side)


1
2
3
4
5
A
B
C
Part 1
IP25
IP29
FP02
FP01
IP30
IP31
IP24
IP27
IP28
IP23
IP01
IP05
IP09
IP08
IP11
IP10
IP13
IP12
IP21
FP31
IP22
IP18
IP06
IP16
FP23
FP32
FP33
IP14
IP15
FQ20
FZ06
FZ08
FZ10
FZ12
FZ05
FZ07
FZ09
FZ11
FZ01
FZ02
IZ00
IZ14
FZ04
IZ15
IZ07
IZ28
IZ27
IZ02
IZ20
IZ01
IZ26
FZ03
IZ16
IZ19
IZ21
IZ22
IZ18
IZ25
IO09
FB29
IB11
FB13
IB12
FB14
FB36
IB26
FB35
FB10
FB09
FB31
FB30
FB28
IB06
FO07
FO06
IO08
FB51
IB09
IB20
IB15
IB17
IB18
IB16
IB46
IB24
FB40
FB45
FB57
FB50
FB52
IB44
IB47
IL16
IL18
IL15
FLC1
IL83
FLA9
FLB9
FLB8
FO07
FLA8
ILB9
IL36
FLC2
FLB7
IL17
IL14
AH10
FQ08
FQ12
FQ25
IH13
FQ04
IQ10
FQ06
FQ24
IH12
IQ12
FQ09
IQ03
IQ06
IQ05
IQ04
IQ13
IQ34
FQ52
FQ53
IQ38
IH03
IQ30
IH04
FQ43
IH09
IQ31
IH17
IH16
IQ31
IQ22
IQ37
FH12
IQ23
IQ29
IQ26
IQ28
IJ08
FLB0
ILB6
IQ35
IQ39
IQ36
IL08
IL19
FLA7
IQ14
FLA6
FQ03
AH11
FQ05
IQ07
ILN6
IQ24
IQ25
FQ21
FQ22
FQ23
FQ19
IN13
IN08
IN06
IN01
IN07
IN10
IN05
IN09
IN03
IN11
IN15
IN14
IN04
IN16
IN20
IN21
IN17
IN22
IN02
FN0B
FN0C
FN09
FN04
FN06
IU1H
IU03
IU12
IU11
FU08
IU2L
IU37
IU35
IU36
IU34
IU02
IU1K
G_15990_065a.eps
270406

Test Point Overview SSB Part 2 (Bottom Side)

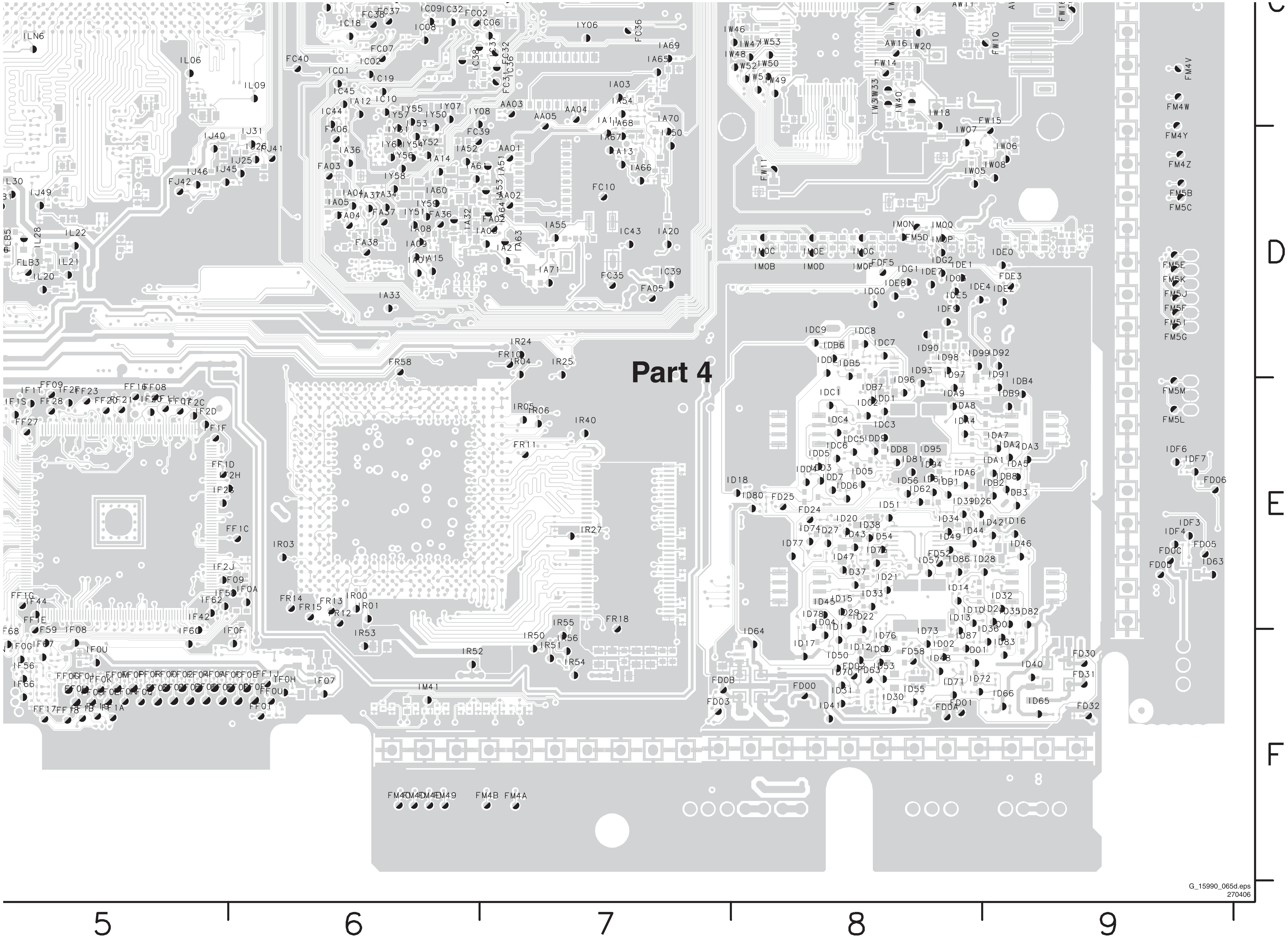

5
6
7
8
9
A
B
C
Part 2
G_15990_065b.eps
270406

Test Point Overview SSB Part 3 (Bottom Side)

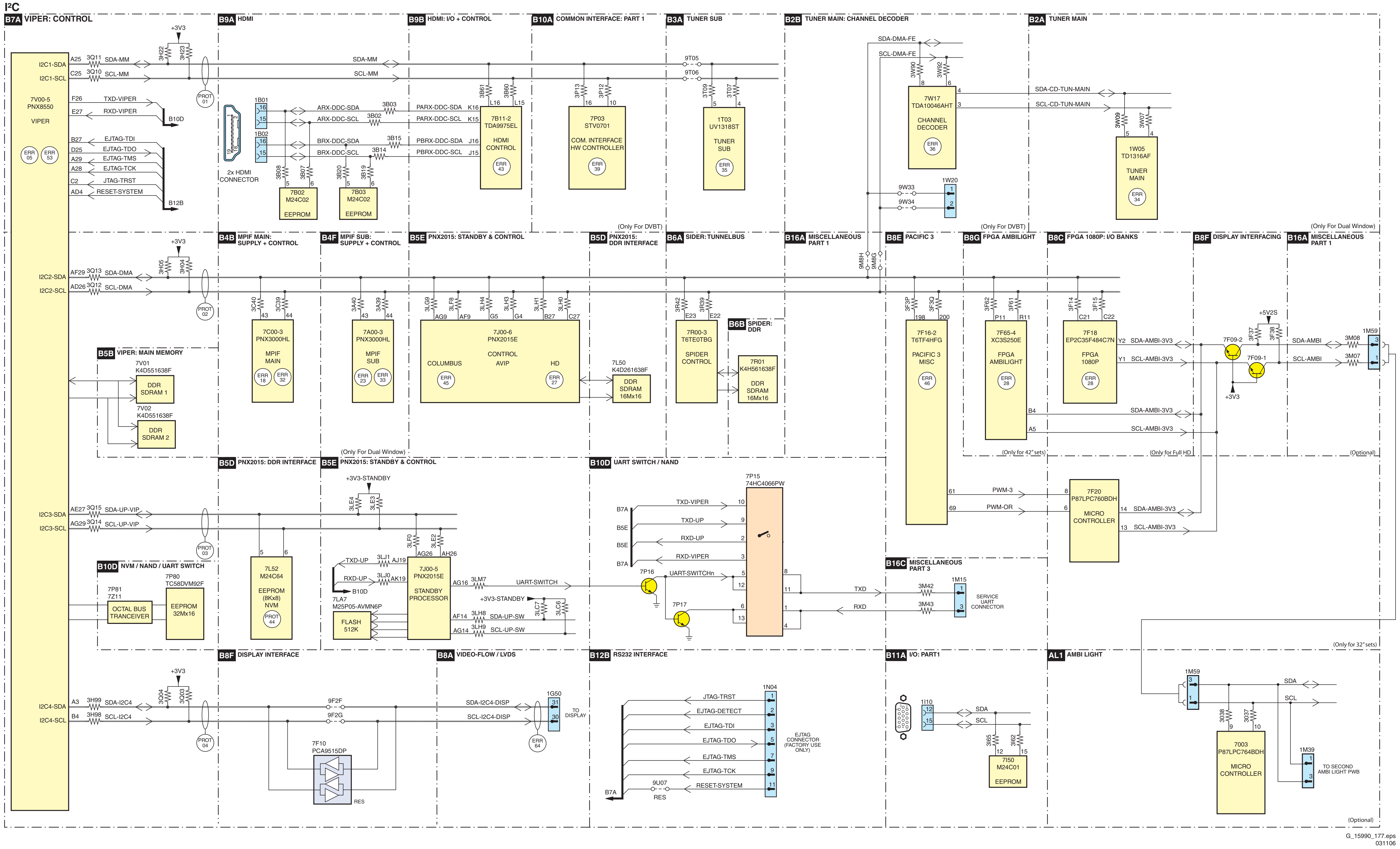

Part 3
C
D
E
F
1
2
3
4
5
IU03
IU1H
IU12
IU11
FU08
IU2L
IU02
IU1K
IU1B
IU00
FU18
IU2M
IU1J
IU08
AU01
IU01
FU10
IU37
IU35
IU36
IU34
FU12
IU06
IU07
IU05
IU29
IU20
IU1D
IU04
IU21
IU0V
IU0Y
FU09
IU13
IU0Z
IU0W
IU14
IU1V
FU05
FU07
IU6M
IU61
IU1N
IU27
IU26
FU19
IU2J
AU02
IU30
IU32
IU1A
IU31
IU1P
IU2H
IU2G
IU2F
IU2E
FU22
FU45
FU01
FU02
FU23
FU04
IU2C
IU19
IU18
FU46
IU4A
IU48
IU52
IU50
IU51
FU44
IU47
IU49
IU4B
IU4C
IU4F
IU28
FU43
AU03
IU2K
IU45
IU41
IU46
FU41
FU40
IU44
IU42
IU40
IU43
FU03
IU0P
IU25
IU24
IU2B
IU23
IU81
IU83
IU15
IU80
IU82
IU65
IU6A
IU87
IU88
IU67
IU69
IU60
IU6F
IU6E
IU62
IU6K
IU72
FU60
FU61
FU62
IU64
IU71
IU70
IU66
FQ23
FQ22
IQ25
FQ19
FQ05
IQ07
FQ11
IH21
IQ15
ILN6
IL32
IL33
IL31
IL34
FLB2
IL42
IL29
IL30
FLB1
IJ49
FLB4
IL25
IL24
IL23
IL27
IL26
IL22
FLB3
IL21
IJ48
IL20
IF1U
FF62
IF74
FM72
FM70
FM71
FM73
FM74
FM75
IF46
IF34
IF25
IF28
IF31
IF23
IF29
FF14
FF13
IF30
FF27
IF35
IF1Z
IF1Y
FF15
FF1H
FF88
FF60
IF75
FF61
IF73
IF71
FF11
FF0Y
FF0Z
FF0W
FF10
FF65
IF03
IF41
IF05
IF04
IF0W
IF53
IF51
IF37
IF36
IF24
IF38
IF22
IF19
FF06
IF1V
IF43
IF65
IF44
IF59
IF08
IF56
IF66
IF68
FF09
FF28
FF23
IF40
FM14
FMON
FMOK
FMOV
FMOP
FMOQ
FMOL
IMOU
IMOR
IMOS
IM05
IM03
IM40
IM07
IM09
FM13
FM16
FM0D
FM12
FM05
FM10
FM0R
FM11
FM07
FM15
FM09
FM08
FM48
FM47
FM46
FM45
FM44
FM43
FM42
FM40
FM41
FM03
FM0G
FM0F
FM0E
FM02
FM01
FM04
FM00
FM0C
FM06

G_15990_065c.eps
270406

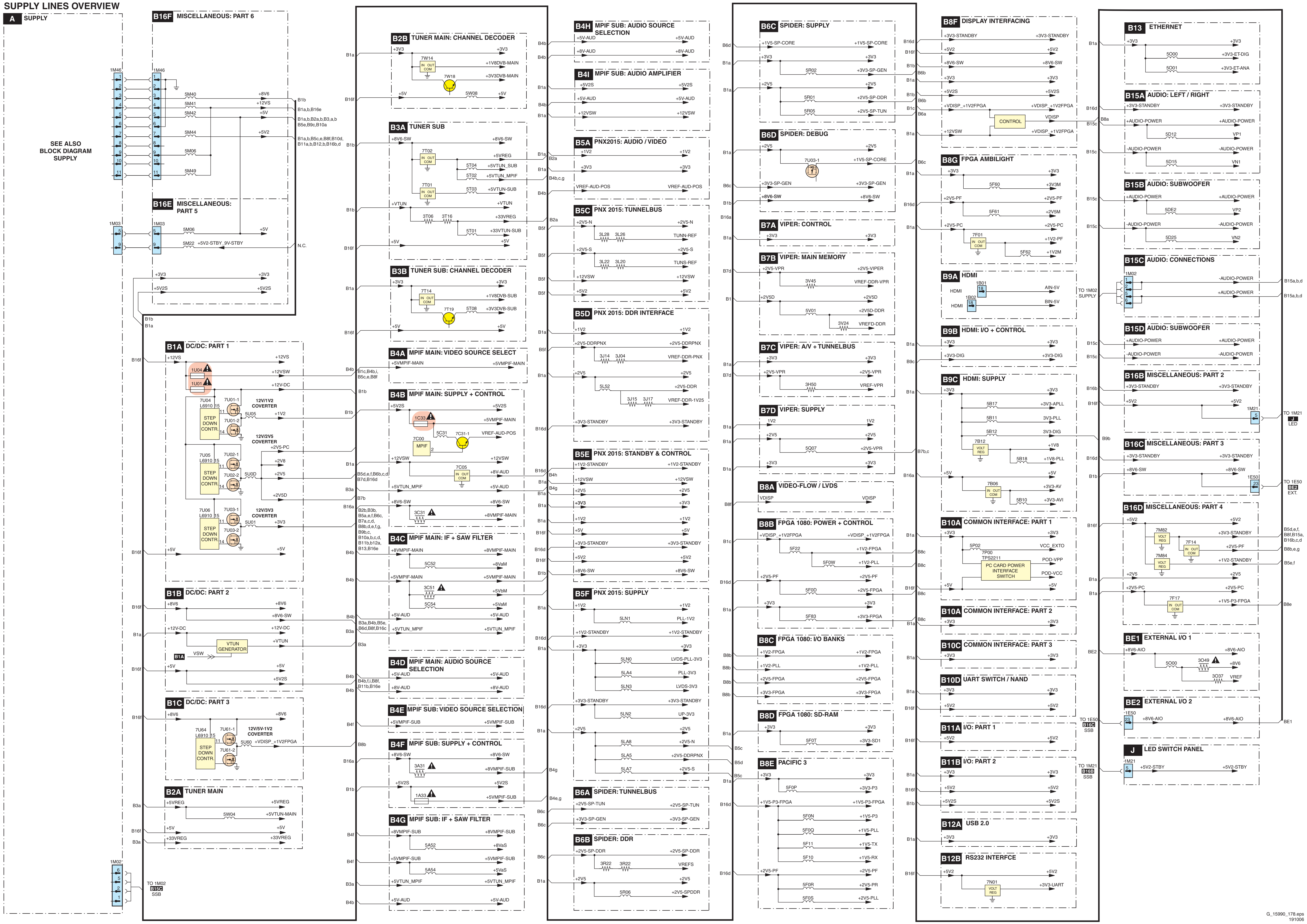
Test Point Overview SSB Part 4 (Bottom Side)


Part 4
C
D
E
F
5
6
7
8
9
G_15990_065d.eps
270406

I2C IC's Overview

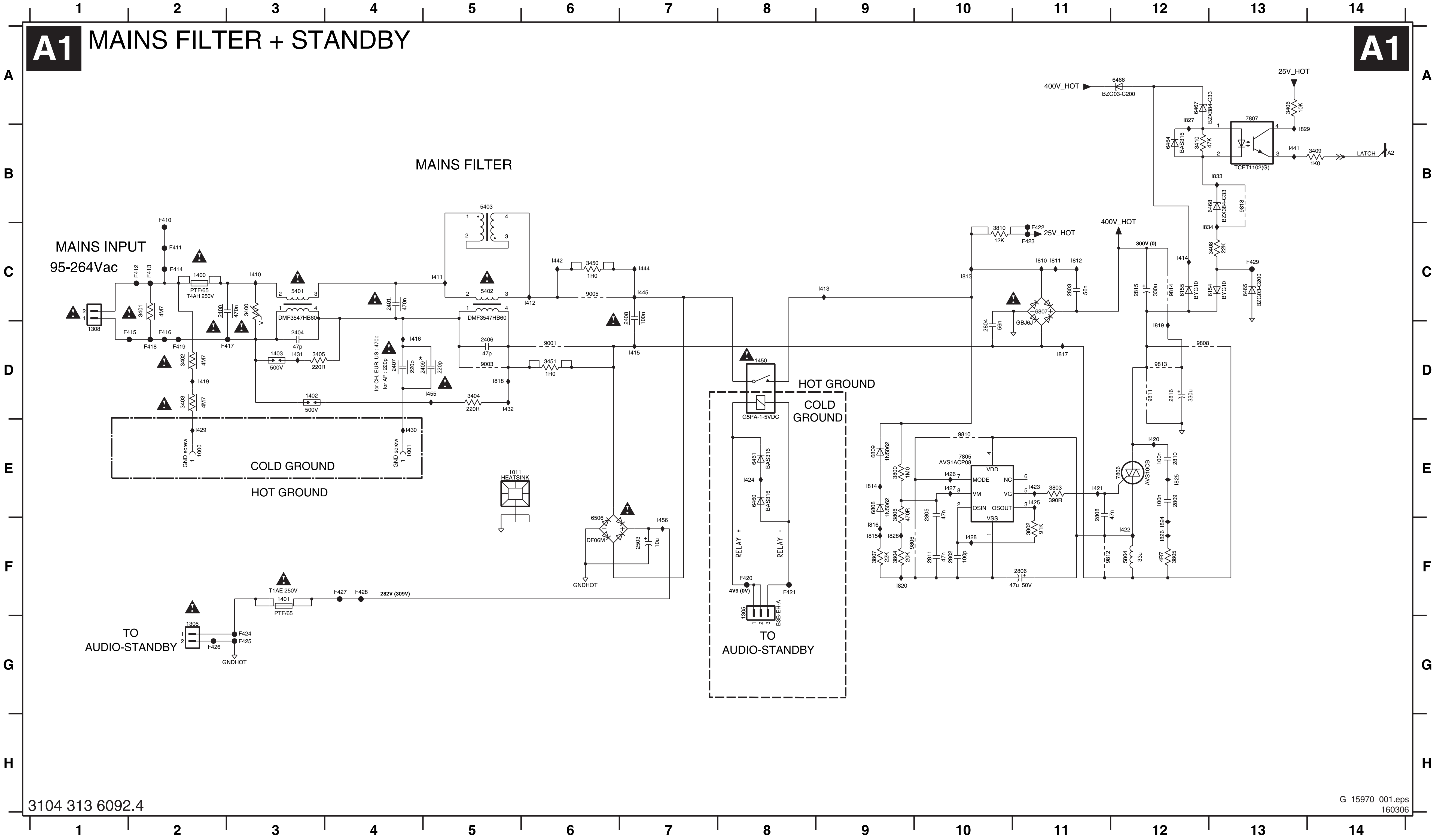

I²C
B7A VIPER: CONTROL
7V00-5
PNX8550
VIPER
ERR 05
ERR 53
I2C1-SDA
I2C1-SCL
I2C2-SDA
I2C2-SCL
I2C3-SDA
I2C3-SCL
I2C4-SDA
I2C4-SCL
SDA-MM
SCL-MM
TXD-VIPER
RXD-VIPER
EJTAG-TDI
EJTAG-TDO
EJTAG-TMS
EJTAG-TCK
JTAG-TRST
RESET-SYSTEM
B10D
B12B
+3V3
PROT 01
PROT 02
PROT 03
PROT 04
SDA-DMA
SCL-DMA
SDA-UP-VIP
SCL-UP-VIP
SDA-I2C4
SCL-I2C4
B9A HDMI
1B01
1B02
2x HDMI CONNECTOR
ARX-DDC-SDA
ARX-DDC-SCL
BRX-DDC-SDA
BRX-DDC-SCL
7B02 M24C02 EEPROM
7B03 M24C02 EEPROM
B9B HDMI: I/O + CONTROL
PARX-DDC-SDA
PARX-DDC-SCL
PBRX-DDC-SDA
PBRX-DDC-SCL
7B11-2 TDA9975EL HDMI CONTROL
ERR 43
B10A COMMON INTERFACE: PART 1
7P03 STV0701 COM. INTERFACE HW CONTROLLER
ERR 39
B3A TUNER SUB
9T05
9T06
1T03 UV1318ST TUNER SUB
ERR 35
(Only For DVBT)
B2B TUNER MAIN: CHANNEL DECODER
SDA-DMA-FE
SCL-DMA-FE
7W17 TDA10046AHT CHANNEL DECODER
ERR 36
9W33
9W34
1W20
B2A TUNER MAIN
SDA-CD-TUN-MAIN
SCL-CD-TUN-MAIN
1W05 TD1316AF TUNER MAIN
ERR 34
(Only For DVBT)
(Only for Dual Window)
B4B MPIF MAIN: SUPPLY + CONTROL
7C00-3 PNX3000HL MPIF MAIN
ERR 18
ERR 32
B4F MPIF SUB: SUPPLY + CONTROL
7A00-3 PNX3000HL MPIF SUB
ERR 23
ERR 33
B5E PNX2015: STANDBY & CONTROL
7J00-6 PNX2015E CONTROL
COLUMBUS
AVIP
HD
ERR 45
ERR 27
B5D PNX2015: DDR INTERFACE
7L50 K4D261638F DDR SDRAM 16Mx16
B6A SIDER: TUNNELBUS
7R00-3 T6TE0TBG SPIDER CONTROL
B6B SPIDER: DDR
7R01 K4H561638F DDR SDRAM 16Mx16
B16A MISCELLANEOUS PART 1
B8E PACIFIC 3
7F16-2 T6TF4HFG PACIFIC 3 MISC
ERR 46
B8G FPGA AMBILIGHT
7F65-4 XC3S250E FPGA AMBILIGHT
ERR 28
B8C FPGA 1080P: I/O BANKS
7F18 EP2C35F484C7N FPGA 1080P
ERR 28
SDA-AMBI-3V3
SCL-AMBI-3V3
B8F DISPLAY INTERFACING
+5V2S
7F09-2
7F09-1
+3V3
B16A MISCELLANEOUS PART 1
SDA-AMBI
SCL-AMBI
3M08
3M07
1M59
(Only for 42" sets)
(Only for Full HD)
(Optional)
B5B VIPER: MAIN MEMORY
7V01 K4D551638F DDR SDRAM 1
7V02 K4D551638F DDR SDRAM 2
(Only For Dual Window)
B5D PNX2015: DDR INTERFACE
7L52 M24C64 EEPROM (8Kx8) NVM
PROT 44
B5E PNX2015: STANDBY & CONTROL
+3V3-STANDBY
TXD-UP
RXD-UP
B10D
7LA7 M25P05-AVMN6P FLASH 512K
7J00-5 PNX2015E STANDBY PROCESSOR
UART-SWITCH
SDA-UP-SW
SCL-UP-SW
B10D NVM / NAND / UART SWITCH
7P81 7Z11 OCTAL BUS TRANCEIVER
7P80 TC58DVM92F EEPROM 32Mx16
B10D UART SWITCH / NAND
7P15 74HC4066PW
TXD-VIPER
TXD-UP
RXD-UP
RXD-VIPER
UART-SWITCHn
7P16
7P17
B7A
B5E
B5E
B7A
TXD
RXD
PWM-3
PWM-OR
7F20 P87LPC760BDH MICRO CONTROLLER
SDA-AMBI-3V3
SCL-AMBI-3V3
B16C MISCELLANEOUS PART 3
3M42
3M43
1M15
SERVICE UART CONNECTOR
(Only for 32" sets)
B8F DISPLAY INTERFACE
9F2F
9F2G
7F10 PCA9515DP
RES
B8A VIDEO-FLOW / LVDS
SDA-I2C4-DISP
SCL-I2C4-DISP
1G50
TO DISPLAY
ERR 64
B12B RS232 INTERFACE
1N04
JTAG-TRST
EJTAG-DETECT
EJTAG-TDI
EJTAG-TDO
EJTAG-TMS
EJTAG-TCK
RESET-SYSTEM
9U07
RES
B7A
EJTAG CONNECTOR (FACTORY USE ONLY)
B11A I/O: PART1
1I10
SDA
SCL
7I50 M24C01 EEPROM
AL1 AMBI LIGHT
1M59
SDA
SCL
7003 P87LPC764BDH MICRO CONTROLLER
1M39
TO SECOND AMBI LIGHT PWB
(Optional)
G_15990_177.eps
031106

Supply Lines Overview


SUPPLY LINES OVERVIEW
A SUPPLY
SEE ALSO BLOCK DIAGRAM SUPPLY
B16F MISCELLANEOUS: PART 6
B16E MISCELLANEOUS: PART 5
B1A DC/DC: PART 1
12V/1V2 COVERTER
12V/2V5 COVERTER
12V/3V3 COVERTER
STEP DOWN CONTR.
B1B DC/DC: PART 2
VTUN GENERATOR
B1C DC/DC: PART 3
12V/5V-1V2 COVERTER
B2A TUNER MAIN
TO 1M02 B15C SSB
B2B TUNER MAIN: CHANNEL DECODER
B3A TUNER SUB
B3B TUNER SUB: CHANNEL DECODER
B4A MPIF MAIN: VIDEO SOURCE SELECT
B4B MPIF MAIN: SUPPLY + CONTROL
B4C MPIF MAIN: IF + SAW FILTER
B4D MPIF MAIN: AUDIO SOURCE SELECTION
B4E MPIF SUB: VIDEO SOURCE SELECTION
B4F MPIF SUB: SUPPLY + CONTROL
B4G MPIF SUB: IF + SAW FILTER
B4H MPIF SUB: AUDIO SOURCE SELECTION
B4I MPIF SUB: AUDIO AMPLIFIER
B5A PNX2015: AUDIO / VIDEO
B5C PNX 2015: TUNNELBUS
B5D PNX 2015: DDR INTERFACE
B5E PNX 2015: STANDBY & CONTROL
B5F PNX 2015: SUPPLY
B6A SPIDER: TUNNELBUS
B6B SPIDER: DDR
B6C SPIDER: SUPPLY
B6D SPIDER: DEBUG
B7A VIPER: CONTROL
B7B VIPER: MAIN MEMORY
B7C VIPER: A/V + TUNNELBUS
B7D VIPER: SUPPLY
B8A VIDEO-FLOW / LVDS
B8B FPGA 1080: POWER + CONTROL
B8C FPGA 1080: I/O BANKS
B8D FPGA 1080: SD-RAM
B8E PACIFIC 3
B8F DISPLAY INTERFACING
CONTROL
B8G FPGA AMBILIGHT
B9A HDMI
B9B HDMI: I/O + CONTROL
B9C HDMI: SUPPLY
B10A COMMON INTERFACE: PART 1
PC CARD POWER INTERFACE SWITCH
B10A COMMON INTERFACE: PART 2
B10C COMMON INTERFACE: PART 3
B10D UART SWITCH / NAND
B11A I/O: PART 1
B11B I/O: PART 2
B12A USB 2.0
B12B RS232 INTERFCE
B13 ETHERNET
B15A AUDIO: LEFT / RIGHT
B15B AUDIO: SUBWOOFER
B15C AUDIO: CONNECTIONS
B15D AUDIO: SUBWOOFER
B16B MISCELLANEOUS: PART 2
B16C MISCELLANEOUS: PART 3
B16D MISCELLANEOUS: PART 4
BE1 EXTERNAL I/O 1
BE2 EXTERNAL I/O 2
J LED SWITCH PANEL
TO 1M02 SUPPLY
TO 1M21 J LED
TO 1E50 BE2 EXT.
TO 1E50 B16C SSB
TO 1M21 B16B SSB
G_15990_178.eps 191006

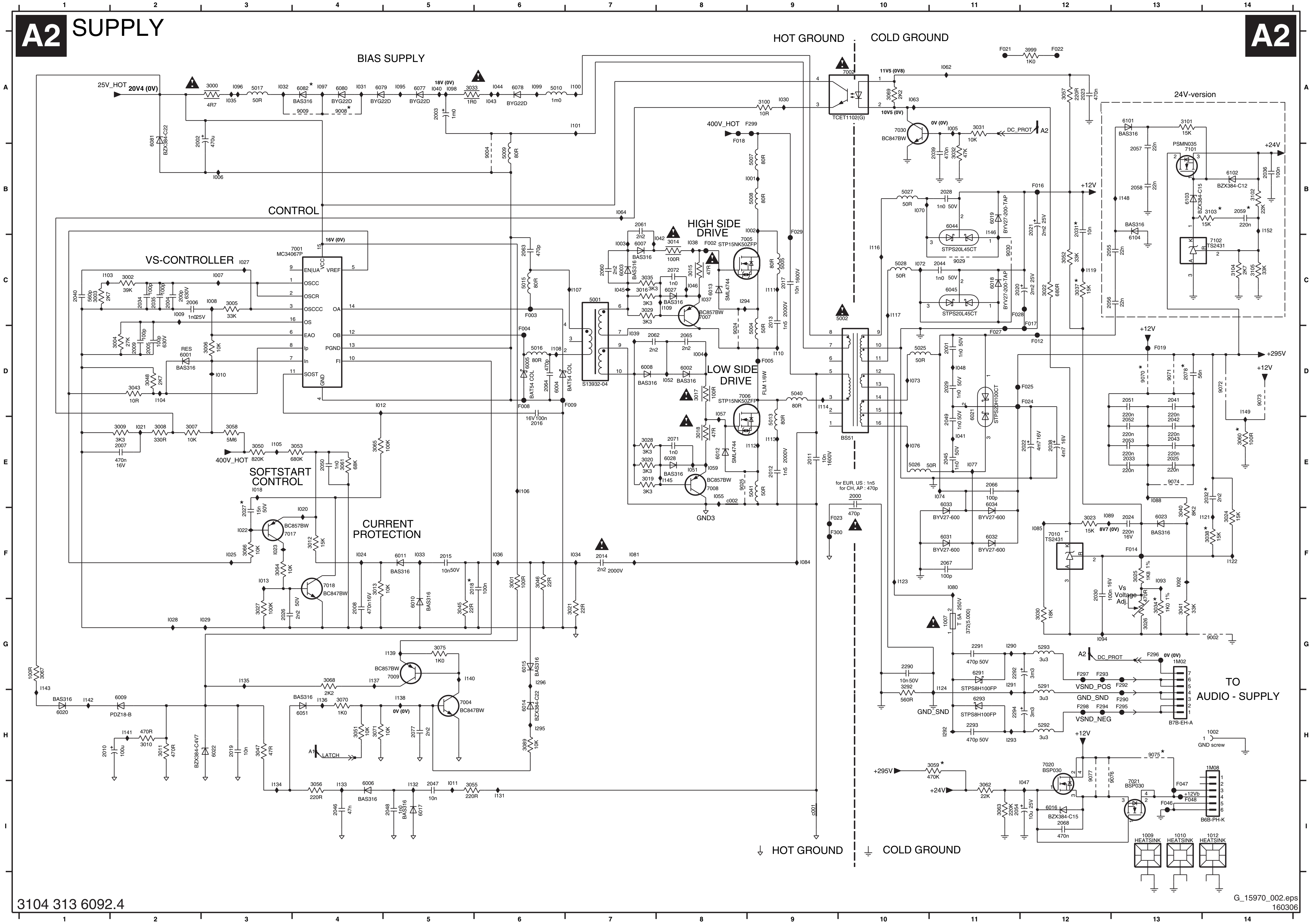
7. Circuit Diagrams and PWB Layouts

Power Supply 32”: Mains Filter & Standby


A1
MAINS FILTER + STANDBY
MAINS FILTER
MAINS INPUT
95-264Vac
1308
1400
PTF/65
T4AH 250V
5401
DMF3547HB60
5402
DMF3547HB60
5403
3450
1R0
3451
1R0
3404
220R
3405
220R
1402
500V
1403
500V
for CH, EUR, US : 470p
for AP : 220p
COLD GROUND
HOT GROUND
GND screw
1000
1001
1011
HEATSINK
6506
DF06M
2503
10u
GNDHOT
T1AE 250V
1401
PTF/65
282V (309V)
TO
AUDIO-STANDBY
1306
1450
G5PA-1-5VDC
HOT GROUND
COLD
GROUND
6461
BAS316
6460
BAS316
RELAY +
RELAY -
F420
4V9 (0V)
F421
1305
B3B-EH-A
TO
AUDIO-STANDBY
400V_HOT
6466
BZG03-C200
25V_HOT
3406
10K
7807
TCET1102(G)
3409
1K0
LATCH
A2
6464
BAS316
3410
47K
6467
BZX384-C33
6468
BZX384-C33
3408
22K
3810
12K
F422
25V_HOT
F423
400V_HOT
300V (0)
6807
GBJ6J
2815
330u
6155
BYG10
6154
BYG10
6465
BZG03-C200
2816
330u
7805
AVS1ACP08
VDD
MODE
NC
VM
VG
OSIN
OSOUT
VSS
3803
390R
7806
AVS10CB
2806
47u 50V
6809
1N5062
6808
1N5062
3800
1M0
3806
470R
3802
91K
5804
33u
3805
4R7
3104 313 6092.4
G_15970_001.eps
160306

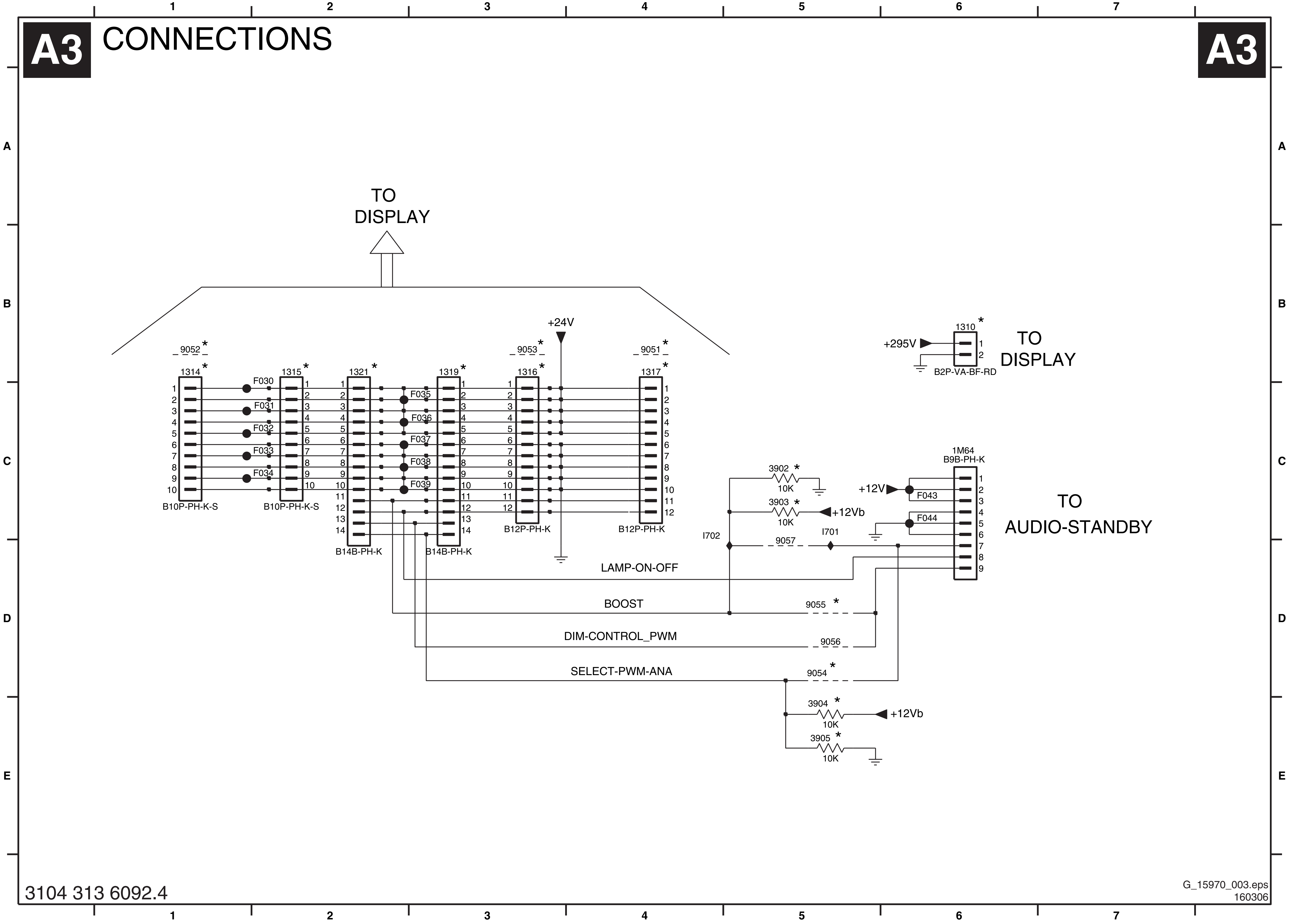
1000 E2
1001 E4
1011 E5
1305 F8
1306 G2
1308 D1
1400 C2
1401 F3
1402 D3
1403 D3
1450 D8
2400 C2
2401 C4
2404 D3
2406 D5
2407 D4
2408 C7
2409 D5
2503 F7
2802 F10
2803 C11
2804 D10
2805 E10
2806 F11
2808 E11
2809 E12
2810 E12
2811 F10
2815 C12
2816 D12
3400 C3
3401 C2
3402 D2
3403 D2
3404 D5
3405 D3
3406 A13
3408 C13
3409 B14
3410 B12
3450 C6
3451 D6
3800 E9
3802 F11
3803 E11
3804 F9
3805 F12
3806 E9
3807 F9
3810 C10
5401 C3
5402 C5
5403 B5
5804 F12
6154 C13
6155 C12
6460 E8
6461 E8
6464 B12
6465 C13
6466 A12
6467 A12
6468 B13
6506 F6
6807 C11
6808 E9
6809 E9
7805 E10
7806 E12
7807 A13
9001 D6
9003 D5
9005 C6
9806 F9
9808 D12
9810 E10
9811 D12
9812 F11
9813 D12
9814 C12
9818 B13
F410 B2
F411 C2
F412 C2
F413 C2
F414 C2
F415 D2
F416 D2
F417 D3
F418 D2
F419 D2
F420 F8
F421 F8
F422 C11
F423 C11
F424 G3
F425 G3
F426 G2
F427 F4
F428 F4
F429 C13
I410 C3
I411 C5
I412 C6
I413 C9
I414 C12
I415 D7
I416 D4
I419 D2
I420 E12
I421 E11
I422 F12
I423 E11
I424 E8
I425 E11
I426 E10
I427 E10
I428 F10
I429 E2
I430 E4
I431 D3
I432 D5
I441 B13
I442 C6
I444 C7
I445 C7
I455 D5
I456 F7
I810 C11
I811 C11
I812 C11
I813 C10
I814 E9
I815 F9
I816 F9
I817 D11
I818 D5
I819 D12
I820 F9
I824 F12
I825 E12
I826 F12
I827 A12
I828 F9
I829 B13
I833 B13
I834 C12

Power Supply 32": Supply


A2
SUPPLY
BIAS SUPPLY
HOT GROUND
COLD GROUND
CONTROL
VS-CONTROLLER
HIGH SIDE DRIVE
LOW SIDE DRIVE
SOFTSTART CONTROL
CURRENT PROTECTION
24V-version
TO AUDIO - SUPPLY
25V_HOT
20V4 (0V)
400V_HOT
7001 MC34067P
7005 STP15NK50ZFP
7006 STP15NK50ZFP
5001 S13932-04
5002 BS51
7002 TCET1102(G)
7101 PSMN035
7102 TS2431
7010 TS2431
7020 BSP030
7021 BSP030
+12V
+24V
+295V
DC_PROT
LATCH
VSND_POS
GND_SND
VSND_NEG
GND3
Vs Voltage Adj
for EUR, US : 1n5 for CH, AP : 470p
1M02 B7B-EH-A
1M08 B6B-PH-K
1002 GND screw
1009 HEATSINK
1010 HEATSINK
1012 HEATSINK
3104 313 6092.4
G_15970_002.eps
160306

1002	H14
1007	G11
1009	I13
1010	I14
1012	I14
1M02	G13
1M08	H14
2000	E10
2001	D11
2002	A2
2003	A5
2004	C2
2005	D2
2006	C2
2007	E2
2008	G4
2009	D2
2010	H1
2011	E9
2012	E9
2013	C9
2014	F7
2015	F5
2016	E6
2017	C9
2018	F5
2019	H3
2020	C11
2021	B12
2022	E12
2023	A12
2024	F13
2025	E13
2026	G3
2027	F3
2028	B11
2029	D11
2030	F12
2031	B12
2032	E14
2033	E13
2034	C2
2035	C2
2036	B14
2038	E12
2039	B11
2040	C1
2041	D13
2042	E13
2043	E13
2044	C11
2045	E11
2046	I4
2047	I5
2048	I5
2049	E11
2050	E4
2051	D13
2052	E13
2053	E13
2054	I11
2055	C12
2056	C12
2057	B13
2058	B13
2059	B14
2060	C7
2061	B7
2062	D7
2063	C6
2064	D6
2065	D8
2066	E11
2067	F11
2068	I12
2071	E8
2072	C8
2077	H5
2078	D13
2290	G10
2291	G11
2292	G11
2293	H11
2294	H11
3000	A3
3001	F6
3002	C2
3003	C1
3004	D2
3005	C3
3006	D3
3007	E2
3008	E2
3009	E2
3010	H2
3011	H2
3012	F4
3013	F4
3014	C8
3015	C8
3016	C7
3017	D8
3018	E8
3019	E7
3020	E7
3021	G7
3022	C12
3023	F12
3024	F14
3025	F13
3026	G13
3027	G3
3028	E7
3029	C7
3030	G12
3031	A11
3032	B11
3033	A5
3034	G13
3035	C7
3037	C12
3038	F14
3040	F13
3041	G13
3043	D2
3045	G5
3046	F6
3047	H3
3048	D2
3050	E3
3051	H4
3052	C12
3053	E4
3055	I5
3056	I4
3057	A12
3058	E3
3059	H11
3060	E14
3061	E4
3062	I11
3063	I11
3064	F3
3065	E4
3066	F3
3067	G1
3068	G4
3069	A10
3070	H4
3071	H4
3075	G5
3089	H6
3100	A9
3101	A13
3102	B14
3103	B14
3104	C14
3105	C14
3292	G10
3999	A12
5001	C7
5002	C9
5004	D9
5005	C9
5007	B9
5008	B9
5009	B6
5010	A6
5013	E9
5015	C6
5016	D6
5017	A3
5025	D10
5026	E10
5027	B10
5028	C10
5040	D9
5041	E9
5291	G12
5292	H12
5293	G12
6001	D2
6002	D8
6003	C7
6004	D6
6005	D6
6006	I4
6007	C7
6008	D7
6009	H2
6010	G5
6011	F5
6012	E8
6013	C8
6014	H6
6015	G6
6016	I12
6017	I5
6018	C11
6019	B11
6020	H1
6021	D11
6022	H3
6023	F13
6027	C8
6028	E8
6031	F11
6032	F11
6033	E11
6034	E11
6044	B11
6045	C11
6051	H4
6077	A5
6078	A6
6079	A4
6080	A4
6081	A2
6082	A4
6101	A13
6102	B14
6103	B13
6104	C13
6291	G11
6293	H11
7001	C4
7002	A10
7004	H5
7005	C8
7006	D8
7007	C8
7008	E8
7009	G5
7010	F12
7017	F3
7018	F4
7020	H12
7021	H13
7030	A10
7101	B13
7102	C14
9002	G14
9004	B6
9008	A4
9009	A4
9024	D8
9025	E8
9029	C11
9030	C11
9070	D13
9071	D13
9072	D14
9073	D14
9074	E13
9075	H13
9076	H12
9077	H12
F002	C8
F003	C6
F004	D6
F005	D9
F008	D6
F009	D7
F012	D12
F014	F13
F016	B12
F017	C12
F018	A8
F019	D13
F021	A11
F022	A12
F023	F9
F024	D12
F025	D12
F027	D11
F028	C11
F029	B9
F046	I13
F047	I13
F048	I13
F290	H13
F292	G13
F293	G12
F294	H12
F295	H13
F296	G13
F297	G12
F298	H12
F299	A9
F300	F9
I001	B9
I002	B9
I003	C7
I004	D8
I005	A11
I006	B3
I007	C3
I008	C3
I009	C2
I010	D3
I011	I5
I012	D4
I013	F3
I018	E3
I020	F4
I021	E2
I022	F3
I023	F3
I024	F4
I025	F3
I027	C3
I028	G2
I029	G3
I030	A9
I031	A4
I032	A3
I033	F5
I034	F7
I035	A3
I036	F6
I037	C8
I038	C8
I039	D7
I040	A5
I041	E11
I042	C8
I043	A6
I044	A6
I045	C7
I046	C8
I047	I12
I048	D11
I051	E8
I052	D8
I055	E8
I057	D8
I059	E8
I062	A11
I063	A10
I064	B7
I070	B10
I072	C10
I073	D10
I074	E11
I076	E10
I077	E11
I080	F11
I081	F7
I084	F9
I085	F12
I088	E13
I089	F12
I092	F13
I093	F13
I094	G12
I095	A5
I096	A3
I097	A4
I098	A5
I099	A6
I100	A7
I101	A7
I103	C1
I104	D2
I105	E3
I106	E6
I107	C7
I108	D6
I109	C8
I110	D9
I111	C9
I112	E9
I113	E9
I114	D9
I116	C10
I117	C10
I119	C12
I121	F14
I122	F14
I123	F10
I124	G11
I131	I6
I132	I5
I133	I4
I134	I3
I135	G3
I136	H4
I137	G4
I138	H5
I139	G5
I140	G5
I141	H2
I142	H1
I143	G1
I145	E8
I146	B11
I148	B13
I149	D14
I152	B14
I290	G11
I291	G11
I292	H11
I293	H11
I294	C8
I295	H6
I296	G6
c001	I9
c002	E8

Power Supply 32”: Connections


A3
CONNECTIONS
A3
TO
DISPLAY
9052
1314
1315
1321
1319
9053
1316
+24V
9051
1317
F030
F031
F032
F033
F034
F035
F036
F037
F038
F039
B10P-PH-K-S
B10P-PH-K-S
B14B-PH-K
B14B-PH-K
B12P-PH-K
B12P-PH-K
1310
+295V
TO
DISPLAY
B2P-VA-BF-RD
1M64
B9B-PH-K
3902
10K
3903
10K
+12V
+12Vb
F043
F044
TO
AUDIO-STANDBY
I702
9057
I701
LAMP-ON-OFF
BOOST
9055
DIM-CONTROL_PWM
9056
SELECT-PWM-ANA
9054
3904
10K
+12Vb
3905
10K
3104 313 6092.4
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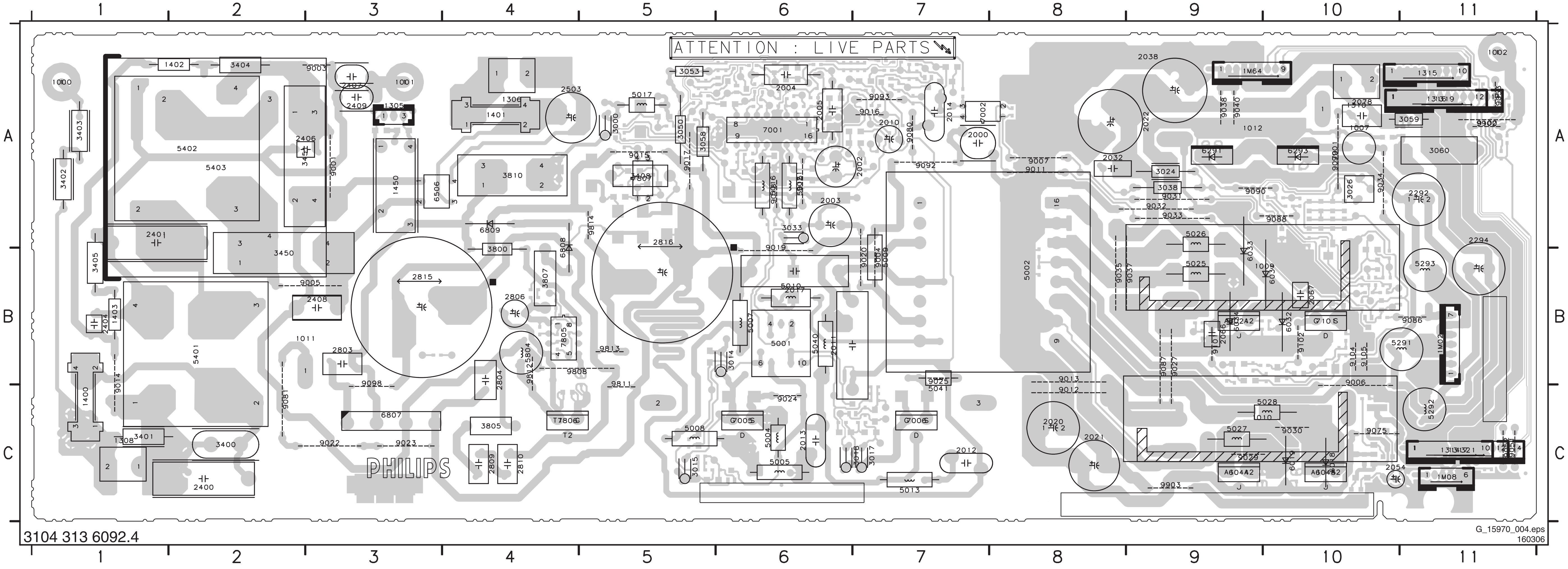
1310	B6
1314	B1
1315	B2
1316	B3
1317	B4
1319	B3
1321	B2
1M64	C6
3902	C5
3903	C5
3904	E5
3905	E5
9051	B4
9052	B1
9053	B3
9054	D5
9055	D5
9056	D5
9057	D5
F030	C2
F031	C2
F032	C2
F033	C2
F034	C2
F035	C3
F036	C3
F037	C3
F038	C3
F039	C3
F043	C6
F044	C6
I701	C5
I702	C4

Layout Power Supply 32” (Top Side)

1000	A1
1001	A3
1002	A11
1007	A10
1009	B9
1010	C9
1011	C3
1012	A9
1305	A3
1306	A4
1308	C1
1310	A10
1314	C11
1315	A11
1316	A11
1317	C11
1319	A11
1321	C11
1400	C1
1401	A4
1402	A2
1403	B1
1450	A3
1M02	B11
1M08	C11
1M64	A9
2000	A7
2002	A7
2003	A6
2004	A6
2005	A6
2010	A7
2011	B7
2012	C7
2013	C6
2014	A7
2017	B6
2020	C8
2021	C8
2022	A8
2032	A8
2038	A9
2054	C10
2066	B9
2067	B10
2078	A10
2292	A11
2294	A11
2400	C2
2401	B1
2404	B1
2406	A3
2407	A3
2408	B3
2409	A3
2503	A4
2803	B3
2804	B4
2806	B4
2809	C4
2810	C4
2815	A3
2816	A5
3000	A5
3014	B6
3015	C5
3017	C7
3018	C6
3024	A9
3026	A10
3033	A6
3038	A9
3050	A5
3053	A5
3058	A5
3059	A11
3060	A11
3400	C2
3401	C2
3402	A1
3403	A1
3404	A2
3405	B1
3408	A5
3450	A2
3451	A2
3800	A4
3805	C4
3807	B4
3810	A4
5001	B6
5002	A8
5004	C6
5005	C6
5007	B6
5008	C5
5009	B7
5010	B6
5013	C7
5015	A6
5016	A6
5017	A5
5025	B9
5026	A9
5027	C9
5028	C10
5040	B6
5041	C7
5291	B11
5292	C11
5293	A11
5401	B2
5402	A1
5403	A3
5804	B4
6018	C10
6019	C10
6021	B9
6031	B10
6032	B10
6033	B9
6034	B9
6044	C9
6045	C10
6291	A9
6293	A10
6506	A3
6807	C3
6808	A4
6809	A4
7001	A6
7002	A7
7005	C6
7006	C7
7101	B10
7805	B4
7806	C4
7807	A5
9001	A3
9003	A3
9004	A7
9005	B3
9006	B10
9007	A8
9011	A8
9012	C8
9013	B8
9014	B1
9015	A5
9016	A7
9017	A5
9018	A6
9019	A6
9020	B7
9021	A6
9022	C3
9023	C3
9024	C6
9025	B7
9027	B9
9029	C9
9030	C10
9031	A9
9032	A9
9033	A9
9034	A10
9035	B8
9037	B9
9038	A9
9040	A9
9051	C11
9052	C11
9053	A11
9070	A10
9075	C10
9080	A7
9081	C2
9086	B11
9087	B9
9088	A10
9090	A9
9092	A7
9093	A7
9098	B3
9100	A11
9101	B9
9102	B10
9104	B10
9105	B10
9808	B4
9811	B5
9812	C4
9813	B5
9814	A5
9901	A10
9902	A11
9903	C9



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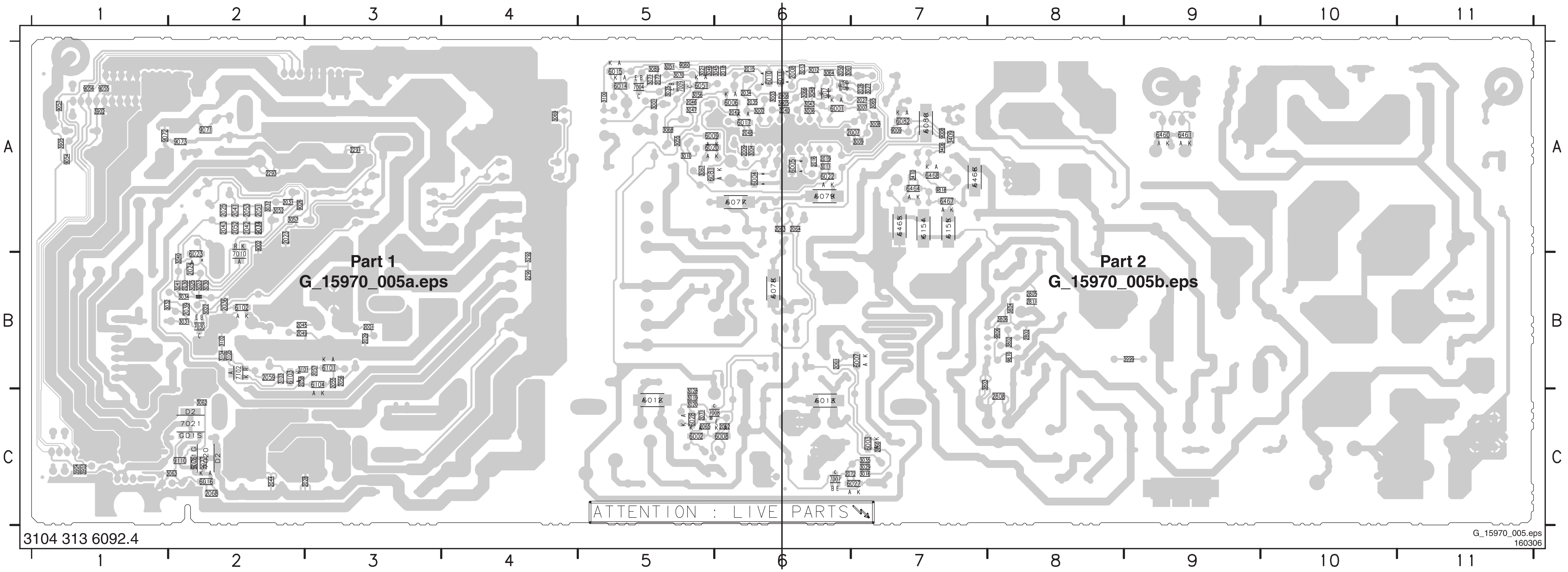
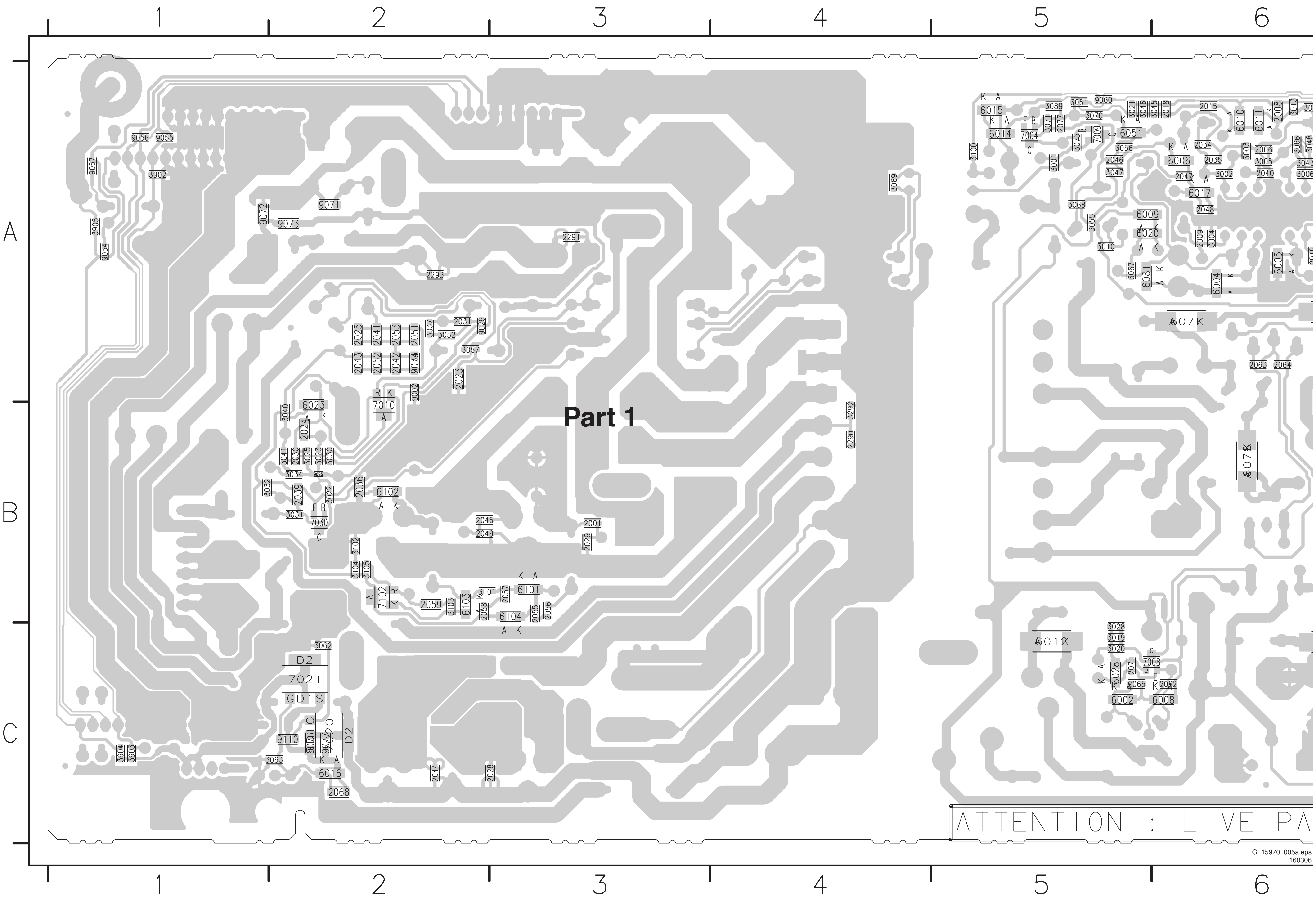
160306

Layout Power Supply 32” (Overview Bottom Side)

2001	B3
2006	A6
2007	A7
2008	A6
2009	A6
2015	A6
2016	A6
2018	A6
2019	A6
2023	A2
2024	B2
2025	A2
2026	A7
2027	A7
2028	C3
2029	B3
2030	B2
2031	A2
2033	A2
2034	A6
2035	A6
2036	B2
2039	B2
2040	A6
2041	A2
2042	A2
2043	A2
2044	C2
2045	B2
2046	A5
2047	A6
2048	A6
2049	B2
2050	A6
2051	A2
2052	A2
2053	A2
2055	B3
2056	B3
2057	B3
2058	B2
2059	B2
2060	C7
2061	B6
2062	C6
2063	A6
2064	A6
2065	C5
2068	C2
2071	C5
2072	C6
2077	A5
2290	B4
2291	A3
2293	A2
2802	B8
2805	B8
2808	C8
2811	B8
3001	A5
3002	A6
3003	A6
3004	A6
3005	A6
3006	A6
3007	A7
3008	A7
3009	A7
3010	A5
3011	A6
3012	A6
3013	A6
3016	C7
3019	C5
3020	C5
3021	A5
3022	B2
3023	B2
3025	B2
3027	A7
3028	C5
3029	C7
3030	B2
3031	B2
3032	B1
3034	B2
3035	C7
3037	A2
3040	B2
3041	B2
3043	A6
3045	A6
3046	A5
3047	A5
3048	A6
3051	A5
3052	A2
3055	A5
3056	A5
3057	A2
3061	A6
3062	C2
3063	C2
3064	A6
3065	A7
3066	A6
3067	A5
3068	A5
3069	A4
3070	A5
3071	A5
3075	A5
3089	A5
3100	A5
3101	B2
3102	B2
3103	B2
3104	B2
3105	B2
3292	B4
3406	A7
3409	A7
3410	A7
3802	B8
3803	B7
3804	B8
3806	B8
3902	A1
3903	C1
3904	C1
3905	A1
3999	B9
6001	A6
6002	C5
6003	C7
6004	A6
6005	A6
6006	A6
6007	B7
6008	C6
6009	A5
6010	A6
6011	A6
6012	B5
6013	B6
6014	A5
6015	A5
6016	C2
6017	A6
6020	A5
6022	A6
6023	A2
6027	C7
6028	C5
6051	A5
6077	A5
6078	B6
6079	A6
6080	A7
6081	A5
6082	A7
6101	B3
6102	B2
6103	B2
6104	B3
6154	A7
6155	A7
6460	A9
6461	A9
6464	A7
6465	A7
6466	A7
6467	A7
6468	A7
7004	A5
7007	C6
7008	C5
7009	A5
7010	A2
7017	A6
7018	A6
7020	C2
7021	C2
7030	B2
7102	B2
9002	A2
9008	A7
9009	A7
9026	A2
9054	A1
9055	A1
9056	A1
9057	A1
9060	A5
9071	A2
9072	A1
9073	A2
9074	A2
9076	C2
9077	C2
9085	B2
9110	C2
9806	B8
9810	B8
9818	A7



Layout Power Supply 32” (Part 1 Bottom Side)


1
2
3
4
5
6
A
B
C
Part 1
ATTENTION : LIVE PA
9056
9055
9057
3902
3905
9054
9072
9073
9071
2291
2293
2025
2041
2053
2051
3037
2031
9026
3052
3057
2043
2052
2042
9034
2023
9002
R K
7010
A
6023
A K
3040
2024
3041
2030
3025
3023
3030
3034
3032
2039
3022
2036
6102
A K
3031
E B
7030
C
2045
2049
2001
2029
3102
3104
3105
K A
6101
3101
2057
A
7102
K R
2059
3103
6103
2058
6104
A K
2055
2056
3062
D2
7021
G D 1 S
9110
3063
G
7020
D2
K A
6016
2068
3904
3903
2044
2028
3069
3292
2290
K A
6015
K A
6014
E B
7004
C
3071
2077
3089
3051
9060
3070
3075
7009
K A
6051
3021
3046
3045
2018
2015
6010
6011
2008
3013
3100
3001
3056
2046
3047
K A
6006
2034
2035
3003
2006
3005
2040
3066
3043
3006
2047
K A
3002
6017
2048
3068
3055
6009
6020
A K
3010
2009
3004
3067
6081
A K
6004
6005
6077
2063
2064
6078
6012
3028
3019
3020
2071
C
7008
B E
K A
6028
2065
2062
6002
6008

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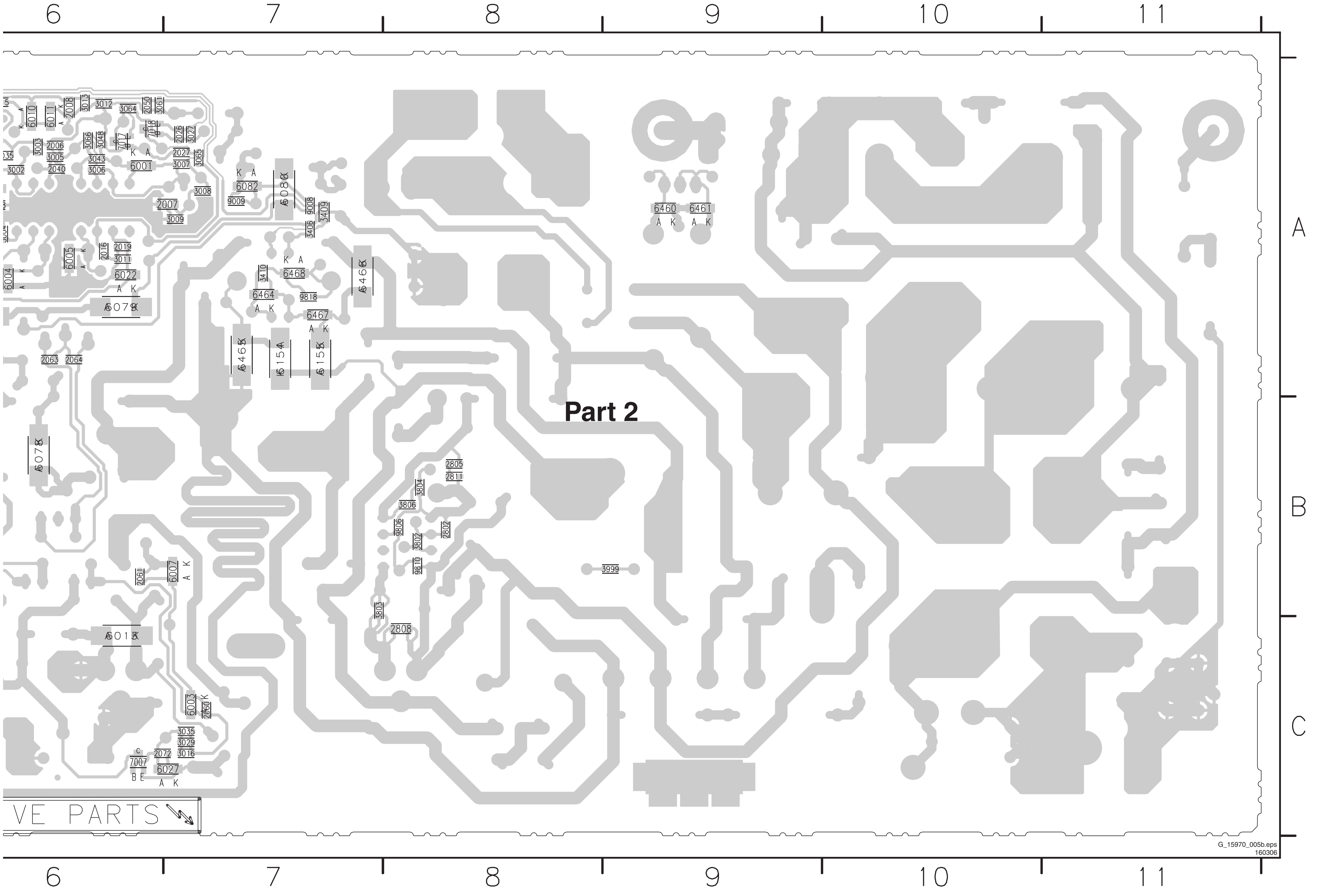
160306

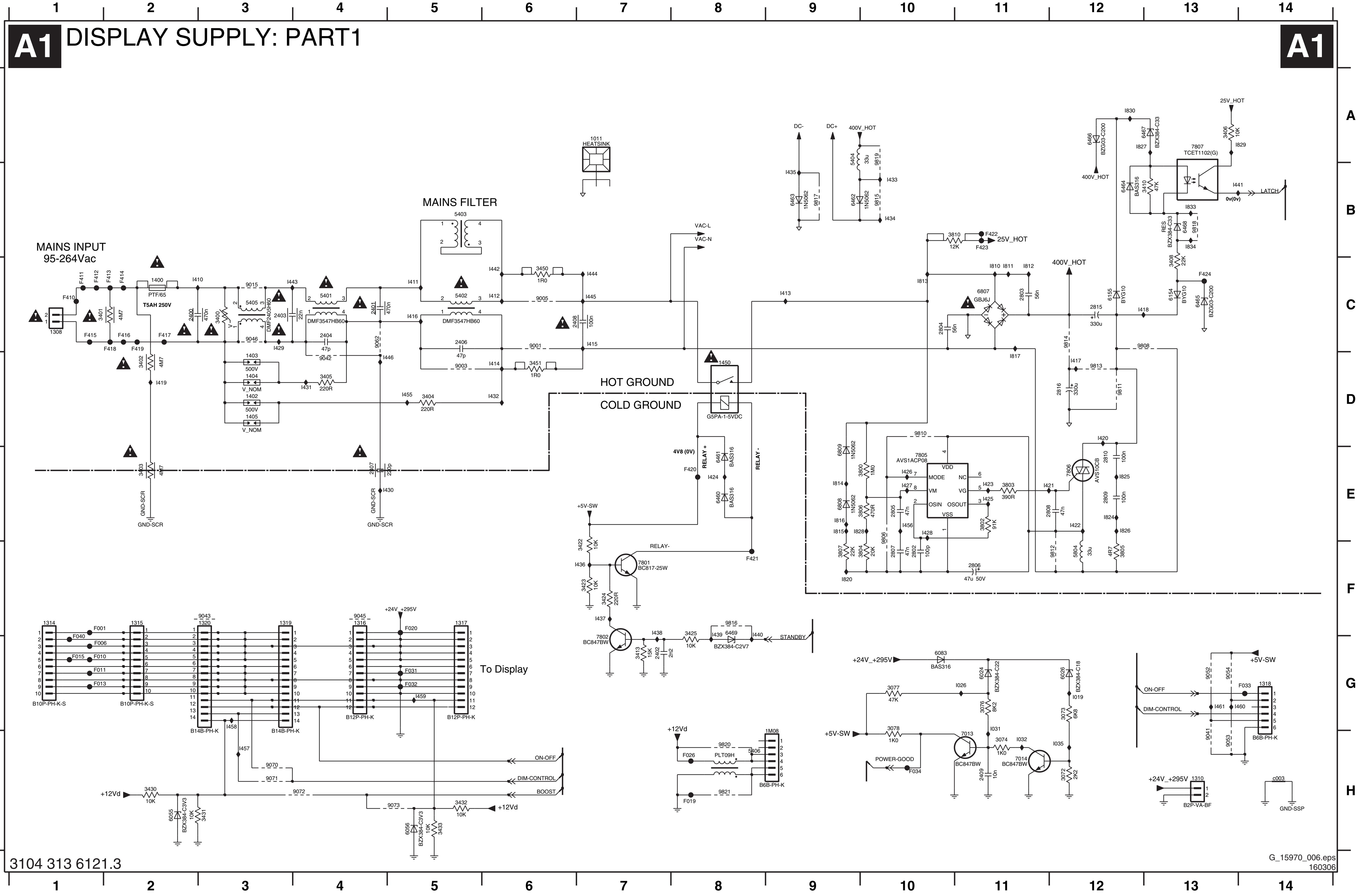
Layout Power Supply 32” (Part 2 Bottom Side)



6
7
8
9
10
11
A
B
C
Part 2
3012
3064
2050
3061
3013
2008
6010
6011
3003
2006
3005
2040
3002
3066
3048
3043
3006
7018
2026
3027
2027
3007
3065
6001
3008
2007
3009
6082
6080
9009
9008
3409
3406
2016
2019
3011
6022
6005
6004
6079
3410
6468
6464
9818
6467
6469
6465
6154
6155
2063
2064
6078
6460
6461
2805
2811
3804
3806
9806
3802
2802
9810
3803
2808
3999
2061
6007
6013
6003
2060
3035
3029
3016
2072
7007
6027
VE PARTS

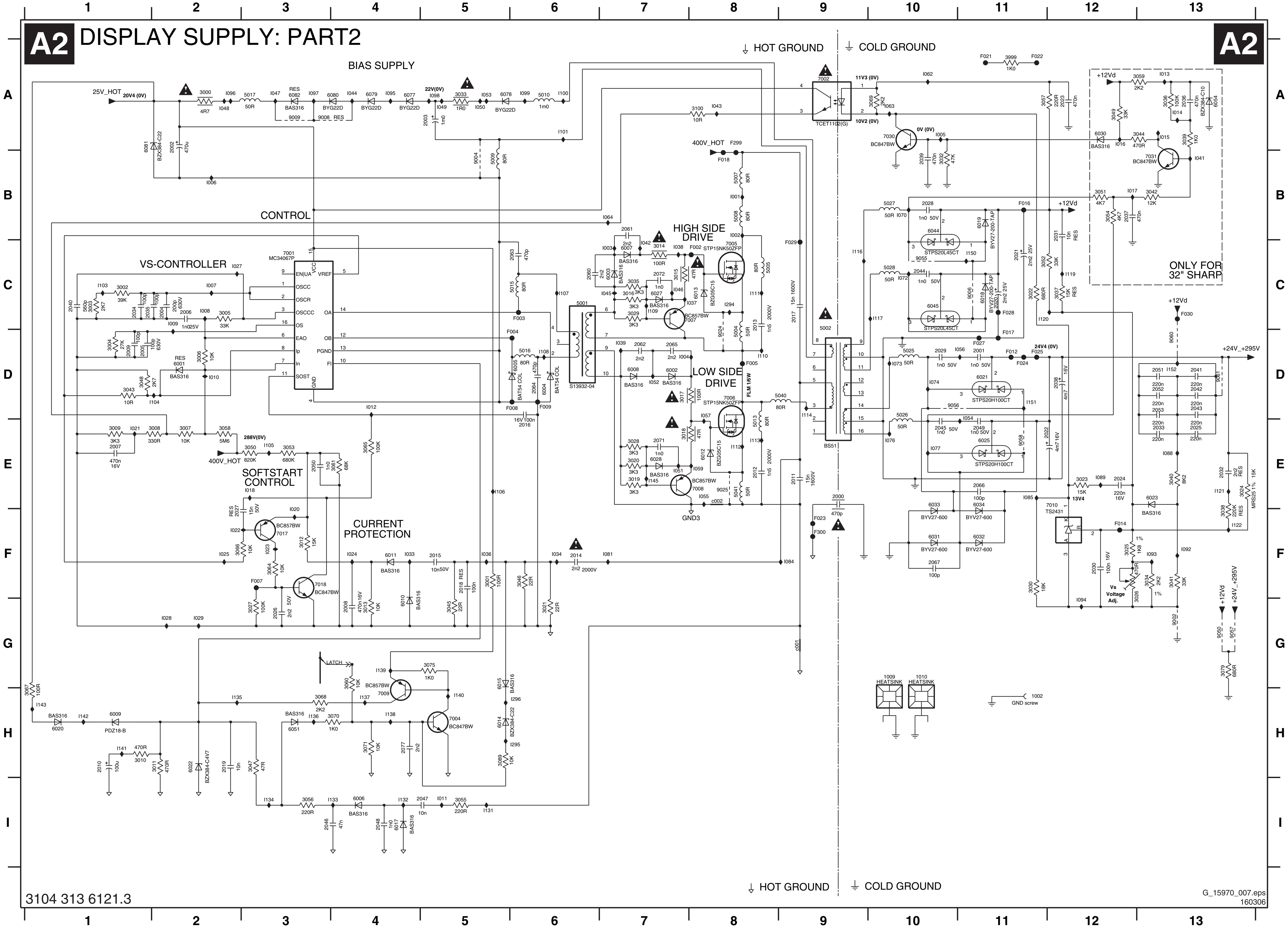
G_15970_005b.eps
160306

Display Supply 37”: Part 1


A1
DISPLAY SUPPLY: PART1
MAINS INPUT
95-264Vac
MAINS FILTER
1011
HEATSINK
T5AH 250V
PTF/65
DMF3547HB60
DMF2405HB60
HOT GROUND
COLD GROUND
G5PA-1-5VDC
RELAY +
RELAY -
VAC-L
VAC-N
DC-
DC+
400V_HOT
25V_HOT
7807
TCET1102(G)
LATCH
GBJ6J
7805
AVS1ACP08
MODE
VM
OSIN
VDD
NC
VG
OSOUT
VSS
7806
AVS10CB
7801
BC817-25W
7802
BC847BW
STANDBY
+5V-SW
+12Vd
+24V_+295V
To Display
ON-OFF
DIM-CONTROL
BOOST
POWER-GOOD
7013
BC847BW
7014
BC847BW
PLT09H
GND-SCR
GND-SSP
B10P-PH-K-S
B14B-PH-K
B12P-PH-K
B6B-PH-K
B2P-VA-BF
3104 313 6121.3
G_15970_006.eps
160306

1011	A7
1308	C1
1310	H13
1314	F1
1315	F2
1316	F4
1317	F5
1318	G14
1319	F3
1320	F3
1400	C2
1402	D3
1403	D3
1404	D3
1405	D3
1450	D8
1M08	H9
2400	C2
2401	C4
2402	G7
2403	C3
2404	C4
2406	C5
2407	E4
2408	C7
2409	H11
2802	F10
2803	C11
2804	C10
2805	E10
2806	F11
2807	F10
2808	E12
2809	E12
2810	E12
2815	C12
2816	D12
3072	H12
3073	G12
3074	H11
3076	G11
3077	G10
3078	G10
3400	C3
3401	C1
3402	D2
3403	E2
3404	D5
3405	D4
3406	A13
3408	C13
3410	B13
3413	G7
3422	F7
3423	F7
3424	F7
3425	F8
3430	H2
3431	H3
3432	H5
3433	H5
3450	C6
3451	D6
3800	E10
3802	E11
3803	E11
3804	F10
3805	F12
3806	E10
3807	F9
3810	B10
5401	C4
5402	C5
5403	B5
5404	A9
5405	C3
5406	H8
5804	F12
6024	G11
6026	G12
6055	H2
6056	H5
6083	G10
6154	C13
6155	C12
6460	E8
6461	E8
6462	B9
6463	B9
6464	B12
6465	C13
6466	A12
6467	A13
6468	B13
6469	F8
6807	C11
6808	E9
6809	E9
7013	H11
7014	H11
7801	F7
7802	G7
7805	E10
7806	E12
7807	A13
9001	C6
9003	D5
9005	C6
9015	C3
9041	H13
9042	D4
9043	F3
9045	F4
9046	C3
9052	G13
9053	H13
9054	G13
9062	C4
9070	H3
9071	H3
9072	H4
9073	H5
9806	E10
9808	C12
9810	D10
9811	D12
9812	F12
9813	D12
9814	C12
9815	B10
9816	F8
9817	B9
9818	B13
9819	A10
9820	H8
9821	H8
F001	F1
F006	G1
F010	G1
F011	G1
F013	G1
F015	G1
F019	H8
F020	F5
F026	H8
F031	G5
F032	G5
F033	G14
F034	H10
F040	G1
F410	C1
F411	C1
F412	C1
F413	C2
F414	C2
F415	C1
F416	C2
F417	C2
F418	C2
F419	C2
F420	E8
F421	F8
F422	B11
F423	B11
F424	C13
I019	G12
I026	G11
I031	G11
I032	H11
I035	H12
I410	C2
I411	C5
I412	C6
I413	C9
I414	D6
I415	C7
I416	C5
I417	D12
I418	C12
I419	D2
I420	D12
I421	E11
I422	E12
I423	E11
I424	E8
I425	E11
I426	E10
I427	E10
I428	E10
I429	C3
I430	E5
I431	D4
I432	D6
I433	B10
I434	B10
I435	B9
I436	F7
I437	F7
I438	F7
I439	F8
I440	F8
I441	B13
I442	C6
I443	C3
I444	C7
I445	C7
I446	D5
I455	D5
I456	E10
I457	H3
I458	G3
I459	G5
I460	G14
I461	G13
I810	C11
I811	C11
I812	C11
I813	C10
I814	E9
I815	E9
I816	E9
I817	D11
I820	F9
I824	E12
I825	E12
I826	E12
I827	A12
I828	E9
I829	A14
I830	A12
I833	B13
I834	B13
c003	H14

Display Supply 37": Part 2


A2
DISPLAY SUPPLY: PART2
BIAS SUPPLY
CONTROL
VS-CONTROLLER
7001
MC34067P
HIGH SIDE DRIVE
LOW SIDE DRIVE
SOFTSTART CONTROL
CURRENT PROTECTION
HOT GROUND
COLD GROUND
ONLY FOR 32" SHARP
25V_HOT
400V_HOT
+12Vd
+24V_+295V
7002
TCET1102(G)
7005
STP15NK50ZFP
7006
STP15NK50ZFP
5002
5001
S13932-04
7010
TS2431
Vs Voltage Adj.
1009 HEATSINK
1010 HEATSINK
1002 GND screw
LATCH
GND3
3104 313 6121.3
G_15970_007.eps
160306
1 2 3 4 5 6 7 8 9 10 11 12 13
A B C D E F G H I

1002	H11
1009	G10
1010	G10
2000	E9
2001	D11
2002	A2
2003	A5
2004	C2
2005	D1
2006	C2
2007	E1
2008	G4
2009	D1
2010	H1
2011	E9
2012	E8
2013	C8
2014	F6
2015	F5
2016	E6
2017	C9
2018	F5
2019	H2
2020	C11
2021	C11
2022	E12
2023	A12
2024	E12
2025	E13
2026	G3
2027	F2
2028	B10
2029	D10
2030	F12
2031	B12
2032	E13
2033	E13
2034	C1
2035	C1
2036	A13
2037	B12
2038	D12
2039	B10
2040	C1
2041	D13
2042	D13
2043	D13
2044	C10
2045	E10
2046	I3
2047	I5
2048	I4
2049	E11
2050	E3
2051	D13
2052	D13
2053	D13
2060	C6
2061	B7
2062	D7
2063	C6
2064	D6
2065	D7
2066	E11
2067	F10
2071	E7
2072	C7
2077	H4
3000	A2
3001	F5
3002	C1
3003	C1
3004	D1
3005	C2
3006	D2
3007	E2
3008	E2
3009	E1
3010	H1
3011	H2
3012	F3
3013	G4
3014	C7
3015	C7
3016	C7
3017	D7
3018	E7
3019	E7
3020	E7
3021	G6
3022	C11
3023	E12
3024	E13
3025	F12
3026	G13
3027	G3
3028	E7
3029	C7
3030	F11
3032	B10
3033	A5
3034	F13
3035	C7
3036	A13
3037	C12
3038	F13
3039	A13
3040	E13
3041	F13
3042	B13
3043	D1
3044	A13
3045	G5
3046	F6
3047	H3
3048	D1
3049	A12
3050	E3
3051	B12
3052	C11
3053	E3
3054	B12
3055	I5
3056	I3
3057	A11
3058	E2
3059	A13
3060	G4
3061	E4
3064	F3
3065	E4
3066	F2
3067	H1
3068	H3
3069	A10
3070	H4
3071	H4
3075	G5
3079	G13
3089	H5
3100	A8
3999	A11
5001	C6
5002	D9
5004	D8
5005	C8
5007	B8
5008	B8
5009	B5
5010	A6
5013	E8
5015	C6
5016	D6
5017	A3
5025	D10
5026	D10
5027	B10
5028	C10
5040	D9
5041	E8
6001	D2
6002	D7
6003	C7
6004	D6
6005	D6
6006	I4
6007	C7
6008	D7
6009	H1
6010	G4
6011	F4
6012	E8
6013	C8
6014	H5
6015	G5
6017	I4
6018	C11
6019	B11
6020	H1
6021	D11
6022	H2
6023	E13
6025	E11
6027	C7
6028	E7
6030	A12
6031	F10
6032	F11
6033	E10
6034	E11
6044	B10
6045	C10
6051	H3
6054	A13
6077	A4
6078	A5
6079	A4
6080	A4
6081	A1
6082	A3
7001	C3
7002	A9
7004	H5
7005	C8
7006	D8
7007	C7
7008	E8
7009	H4
7010	E12
7017	F3
7018	F3
7030	A10
7031	B13
9002	G13
9004	B5
9006	C11
9008	A3
9009	A3
9024	D8
9025	E8
9050	G13
9055	C10
9056	D10
9057	G13
9058	E11
9060	D13
9061	D13
F002	C8
F003	C6
F004	D6
F005	D8
F007	F3
F008	D6
F009	D6
F012	D11
F014	F12
F016	B11
F017	D11
F018	B8
F021	A11
F022	A11
F023	F9
F024	D11
F025	D11
F027	D11
F028	C11
F029	C9
F030	C13
F299	A8
F300	F9
I001	B8
I002	B8
I003	C7
I004	D7
I005	A10
I006	B2
I007	C2
I008	C2
I009	C2
I010	D2
I011	I5
I012	D4
I013	A13
I014	A13
I015	A13
I016	A12
I017	B12
I018	E3
I020	F3
I021	E1
I022	F2
I023	F3
I024	F4
I025	F2
I027	C2
I028	G2
I029	G2
I033	F4
I034	F6
I036	F5
I037	C8
I038	C7
I039	D7
I041	B13
I042	C7
I043	A8
I044	A4
I045	C7
I046	C7
I047	A3
I048	A2
I049	A5
I050	A5
I051	E7
I052	D7
I053	A5
I054	D11
I055	E8
I056	D11
I057	D8
I059	E8
I062	A10
I063	A10
I064	B7
I070	B10
I072	C10
I073	D10
I074	D10
I076	E10
I077	E10
I081	F7
I084	F9
I085	E11
I088	E13
I089	E12
I092	F13
I093	F13
I094	G12
I095	A4
I096	A2
I097	A3
I098	A5
I099	A6
I100	A6
I101	A6
I103	C1
I104	D2
I105	E3
I106	E5
I107	C6
I108	D6
I109	C7
I110	D8
I111	C8
I112	E8
I113	E8
I114	D9
I116	C9
I117	C10
I119	C12
I120	C11
I121	E13
I122	F13
I131	I5
I132	I4
I133	I4
I134	I3
I135	H2
I136	H3
I137	H4
I138	H4
I139	G4
I140	H5
I141	H1
I142	H1
I143	H1
I145	E7
I150	C11
I151	D11
I152	D13
I294	C8
I295	H6
I296	H6
c001	G9
c002	E8

Platform Supply 37”: Aux Supply

0P01	G10
1M02	G3
1M03	G3
1M10	H13
1M18	H13
1M46	G15
1M63	G10
1P00	G4
1P01	G4
1P03	A3
1P05	H7
1P06	A11
1P07	B11
1P17	C1
1P30	E13
2P01	F15
2P02	H10
2P03	D7
2P04	F5
2P05	G7
2P06	D9
2P07	B4
2P08	B4
2P09	B2
2P10	B2
2P11	G6
2P12	F12
2P13	E15
2P14	B5
2P15	B7
2P16	B4
2P17	B3
2P18	B6
2P19	B6
2P20	B7
2P21	A15
2P22	A14
2P23	F14
2P24	F15
2P25	B11
2P26	A13
2P27	B11
2P28	B12
2P29	B11
2P30	B12
2P31	D13
2P32	E2
2P33	H6
2P34	C15
2P35	A11
2P36	D1
2P37	B14
2P40	E11
2P41	F12
2P42	C11
2P43	C11
2P45	F3
2P47	C12
2P48	D15
2P49	C12
2P50	D15
2P51	A12
2P52	B5
2P53	A12
2P54	E2
2P55	D14
2P56	F12
2P57	F11
2P64	B11
2P80	E10
3P00	B12
3P01	B12
3P02	B12
3P03	B12
3P04	C6
3P05	D13
3P06	H10
3P07	D5
3P08	C7
3P09	E15
3P10	E15
3P11	A13
3P12	G12
3P13	C5
3P14	F2
3P15	C2
3P16	C7
3P17	A15
3P18	A14
3P19	A14
3P20	A14
3P21	A13
3P22	B14
3P23	C14
3P24	C14
3P25	F6
3P26	C14
3P27	D7
3P28	B5
3P29	B7
3P30	D2
3P31	D1
3P32	D3
3P33	E7
3P34	D3
3P35	E1
3P36	A12
3P37	E1
3P38	D3
3P39	F3
3P40	F5
3P41	D2
3P42	C4
3P43	C4
3P44	D3
3P45	D2
3P46	D3
3P47	F15
3P48	C7
3P49	A10
3P50	C7
3P51	F13
3P52	F14
3P53	F14
3P54	A10
3P55	F14
3P56	H2
3P57	E13
3P58	E14
3P59	F13
3P60	A12
3P61	E10
3P62	F10
3P63	F11
3P64	G11
3P65	F11
3P66	G11
3P67	F12
3P68	A10
3P69	F6
3P70	C13
3P71	C14
3P72	C14
3P73	F6
3P74	F6
3P75	F8
3P76	B12
3P77	G7
3P78	G5
3P79	D10
3P80	D10
3P81	D10
3P82	E10
3P83	C10
3P84	C11
3P85	D11
3P86	E11
3P87	E11
3P88	C11
3P89	D11
3P90	E11
3P91	E11
3P92	H6
3P93	B13
3P94	B14
3P95	D2
3P96	A12
3P97	A13
3P98	A12
3P99	A12
3PP1	A10
3PP2	E12
3PP3	B5
3PP4	F7
5P00	A9
5P01	B9
5P03	F8
5P04	B8
5P05	C8
5P06	A5
5P07	B7
5P08	C8
5P10	A10
5P11	B10
5P12	B10
5P13	C10
5P14	C15
5P16	D15
5P18	B15
5P19	B15
5P20	A15
5P21	B11
5P22	B11
5P23	C11
5P24	C11
5P25	B6
5P26	B7
5P27	B6
5P28	B7
6P01	B7
6P02	B6
6P03	C15
6P04	A11
6P05	B2
6P06	A2
6P07	B3
6P09	C7
6P10	A11
6P11	B11
6P12	C11
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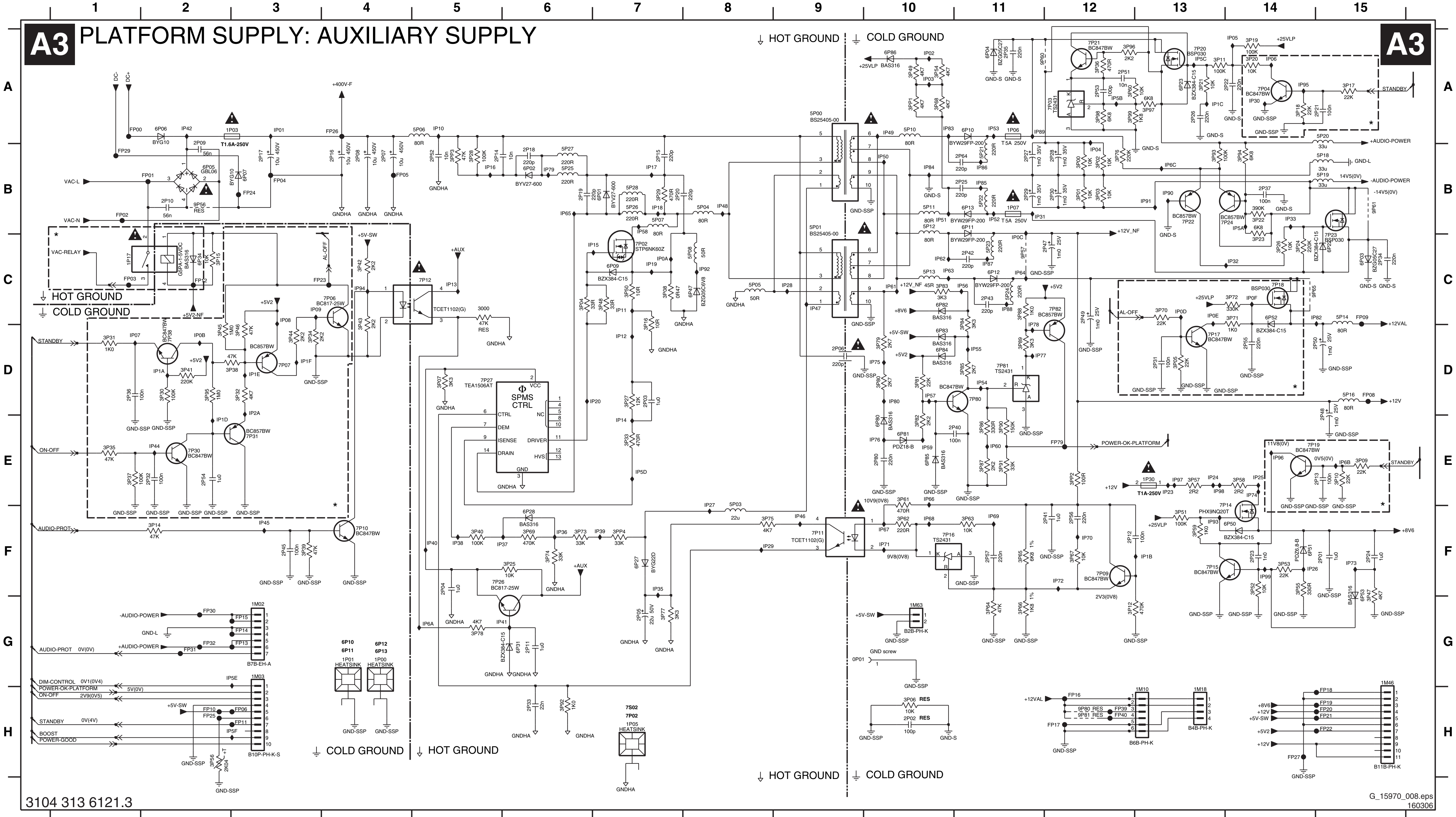
6P22	C15
6P23	A13
6P27	F7
6P28	F6
6P31	G6
6P34	C2
6P47	C8
6P50	F14
6P51	F14
6P52	C14
6P53	F15
6P80	E10
6P81	E10
6P82	C10
6P83	D10
6P84	D10
6P85	E10
6P86	A10
7P02	C7
7P03	A12
7P04	A14
7P06	C4
7P07	D3
7P09	F12
7P10	F4
7P11	F9
7P12	C5
7P14	F13
7P15	F13
7P16	F10
7P17	D13
7P18	C14
7P19	E15
7P20	A13
7P21	A12
7P22	B13
7P23	C15
7P24	B14
7P26	F6
7P27	D5
7P30	E2
7P31	E3
7P38	D2
7P80	D11
7P81	D11
7P82	C12
9P56	B2
9P57	C11
9P60	A11
9P61	B15
9P65	C15
9P80	H12
9P81	H12
FP00	A1
FP01	B2
FP02	B1
FP03	C1
FP04	B3
FP05	B4
FP06	H3
FP08	D15
FP09	C15
FP10	H2
FP11	H3
FP12	C2
FP13	G3
FP14	G3
FP15	G3
FP16	H12
FP17	H12
FP18	H15
FP19	H15
FP20	H15
FP21	H15
FP22	H15
FP23	C3
FP24	B3
FP25	H2
FP26	A4
FP27	H14
FP29	B1
FP30	G2
FP31	G2
FP32	G2
FP39	H12
FP40	H12
FP79	E12
IP01	A3
IP02	A10
IP03	A10
IP04	B12
IP05	A14
IP06	A14
IP07	D1
IP08	C3
IP09	C3
IP0A	C7
IP0B	D2
IP0C	C11
IP0D	C13
IP0E	C13
IP0F	C14
IP10	A5
IP11	C7
IP12	D7
IP13	C5
IP14	E7
IP15	C7
IP16	B5
IP17	B7
IP18	B7
IP19	C7
IP1A	D2
IP1B	F13
IP1C	A13
IP1D	E2
IP1E	D3
IP1F	D3
IP20	D7
IP23	E13
IP24	E13
IP25	E14
IP26	F14
IP27	E8
IP28	C9
IP29	F8
IP2A	D3
IP30	A14
IP31	B11
IP32	C14
IP33	B14
IP35	F7
IP36	F6
IP37	F6
IP38	F5
IP39	F7
IP40	F5
IP41	G5
IP42	A2
IP44	E2
IP45	F3
IP46	F9
IP47	C9
IP48	B8
IP49	A10
IP50	B10
IP51	B10
IP52	B11
IP53	A11
IP54	D11
IP55	D11
IP56	C11
IP57	D10
IP58	B7
IP59	E10
IP5A	B14
IP5B	A12
IP5C	A13
IP5D	E7
IP5E	G3
IP5F	H3
IP60	E11
IP61	C10
IP62	C10
IP63	C10
IP64	C11
IP65	B6
IP66	E10
IP67	F10
IP68	F10
IP69	F11
IP6A	G5
IP6B	E15
IP6C	B13
IP70	F12
IP71	F10
IP72	F12
IP73	F15
IP74	E14
IP75	D10
IP76	E10
IP77	D11
IP78	C11
IP79	B6
IP80	D10
IP82	C15
IP83	A10
IP84	B10
IP85	B11
IP86	B11
IP87	C11
IP88	C11
IP89	A11
IP90	B13
IP91	B13
IP92	C8
IP93	F13
IP94	C4
IP95	A14
IP96	E14
IP97	E13
IP98	E13
IP99	F14

A3 PLATFORM SUPPLY: AUXILIARY SUPPLY


A3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
A B C D E F G H
HOT GROUND
COLD GROUND
DC-
DC+
+400V-F
VAC-L
VAC-N
VAC-RELAY
1P03 T1.6A-250V
6P05 GBL06
1P17 G5PA1-5VDC
STANDBY
ON-OFF
AUDIO-PROT
7P30 BC847BW
7P31 BC857BW
7P38 BC847BW
7P07 BC857BW
7P06 BC817-25W
7P10 BC847BW
7P12 TCET1102(G)
AL-OFF
+5V-SW
+AUX
+5V2
+5V2-NF
7P27 TEA1506AT
SPMS CTRL
VCC CTRL DEM ISENSE DRAIN NC DRIVER HVS GND
7P26 BC817-25W
7P02 STP6NK60Z
BZX384-C15
BYV27-600
5P00 BS25405-00
5P01 BS25405-00
7P11 TCET1102(G)
7P16 TS2431
7P09 BC847BW
7P80 BC847BW
7P81 TS2431
7P82 BC857BW
7P21 BC847BW
7P03 TS2431
7P20 BSP030
7P04 BC847BW
7P22 BC857BW
7P24 BC857BW
7P23 BSP030
7P17 BC847BW
7P18 BSP030
7P19 BC847BW
7P14 PHX9NQ20T
7P15 BC847BW
1P06 T5A 250V
1P07 T5A 250V
1P30 T1A-250V
BYW29FP-200
+25VLP
+AUDIO-POWER
-AUDIO-POWER
GND-L
14V5(0V)
-14V5(0V)
+12V_NF
+12VAL
+12V
+8V6
POWER-OK-PLATFORM
DIM-CONTROL
BOOST
POWER-GOOD
1M02 B7B-EH-A
1M03 B10P-PH-K-S
1M63 B2B-PH-K
1M10 B6B-PH-K
1M18 B4B-PH-K
1M46 B11B-PH-K
1P01 HEATSINK
1P00 HEATSINK
1P05 HEATSINK
GND screw
GND-SSP
GND-S
GNDHA
3104 313 6121.3
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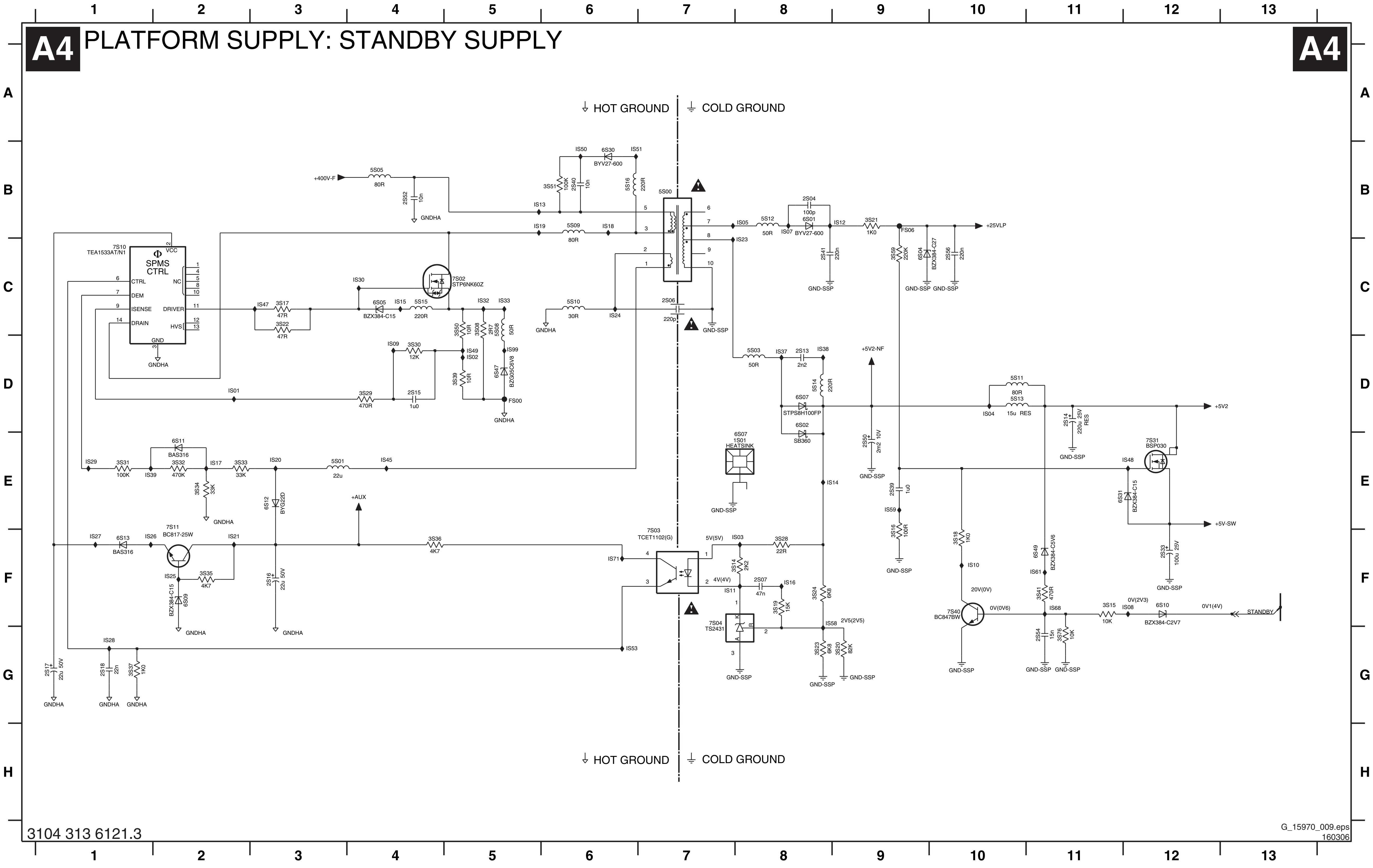
Platform Supply 37”: Standby Supply


A4
PLATFORM SUPPLY: STANDBY SUPPLY
HOT GROUND
COLD GROUND
+400V-F
5S05
80R
2S52
10n
GNDHA
7S10
TEA1533AT/N1
SPMS
CTRL
VCC
CTRL
DEM
ISENSE
DRAIN
NC
DRIVER
HVS
GND
7S02
STP6NK60Z
3S17
47R
3S22
47R
6S05
BZX384-C15
5S15
220R
3S50
10R
3S08
2R7
5S08
50R
3S30
12K
2S15
1u0
3S29
470R
3S39
10R
6S47
BZG05C6V8
FS00
IS50
6S30
BYV27-600
IS51
3S51
100K
2S40
10n
5S16
220R
5S00
5S09
80R
5S10
30R
2S06
220p
GND-SSP
5S12
50R
2S04
100p
6S01
BYV27-600
3S21
1K0
FS06
+25VLP
2S41
220n
3S59
220K
6S04
BZX384-C27
2S56
220n
5S03
50R
2S13
2n2
5S14
220R
+5V2-NF
6S07
STPS8H100FP
6S02
SB360
2S50
2m2 10V
5S11
80R
5S13
15u RES
2S14
220u 25V RES
+5V2
6S07
1S01
HEATSINK
7S31
BSP030
6S31
BZX384-C15
+5V-SW
2S39
1u0
3S16
100R
6S11
BAS316
3S31
100K
3S32
470K
3S33
33K
3S34
33K
5S01
22u
6S12
BYG22D
+AUX
7S11
BC817-25W
6S13
BAS316
3S35
4K7
6S09
BZX384-C15
3S36
4K7
2S16
22u 50V
7S03
TCET1102(G)
5V(5V)
3S14
2K2
3S28
22R
4V(4V)
2S07
47n
3S19
15K
7S04
TS2431
3S24
6K8
2V5(2V5)
3S23
6K8
3S20
82K
3S18
1K0
20V(0V)
7S40
BC847BW
0V(0V6)
6S49
BZX384-C5V6
3S41
470R
2S54
15n
3S76
10K
3S15
10K
0V(2V3)
6S10
BZX384-C2V7
0V1(4V)
STANDBY
2S33
100u 25V
2S17
22u 50V
2S18
22n
3S37
1K0
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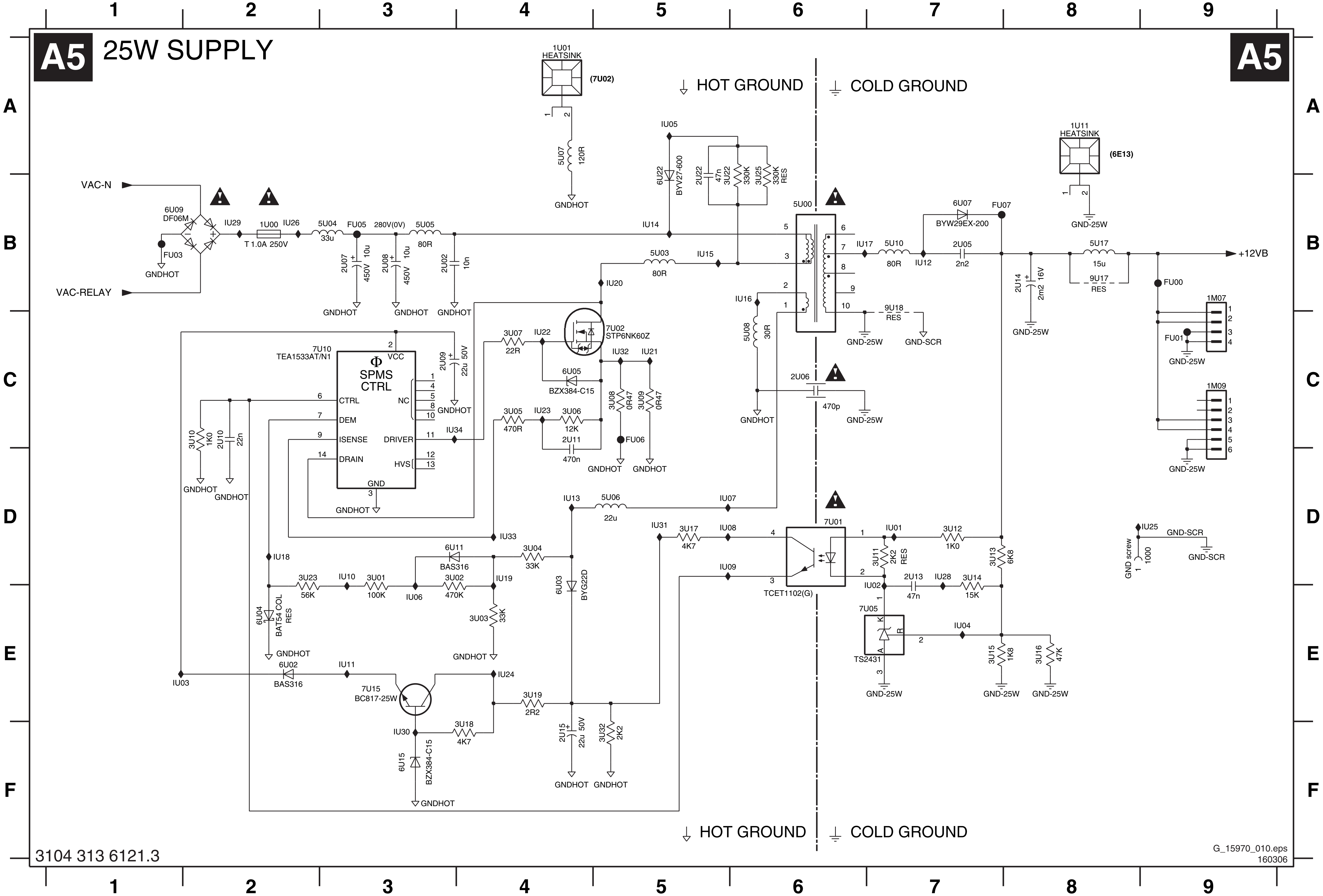
1S01 E8
2S04 B8
2S06 C7
2S07 F8
2S13 D8
2S14 D11
2S15 D4
2S16 F3
2S17 G1
2S18 G1
2S33 F12
2S39 E9
2S40 B6
2S41 C8
2S50 E9
2S52 B4
2S54 G11
2S56 C10
3S08 C5
3S14 F8
3S15 F11
3S16 F9
3S17 C3
3S18 F10
3S19 F8
3S20 G9
3S21 B9
3S22 C3
3S23 G8
3S24 F8
3S28 F8
3S29 D4
3S30 D4
3S31 E1
3S32 E2
3S33 E2
3S34 E2
3S35 F2
3S36 F4
3S37 G1
3S39 D5
3S41 F11
3S50 C5
3S51 B6
3S59 C9
3S76 G11
5S00 B7
5S01 E3
5S03 D8
5S05 B4
5S08 C5
5S09 B6
5S10 C6
5S11 D10
5S12 B8
5S13 D10
5S14 D8
5S15 C4
5S16 B6
6S01 B8
6S02 D8
6S04 C9
6S05 C4
6S07 D8
6S09 F2
6S10 F12
6S11 E2
6S12 E3
6S13 F1
6S30 B6
6S31 E11
6S47 D5
6S49 F11
7S02 C5
7S03 F7
7S04 F7
7S10 C1
7S11 E2
7S31 E12
7S40 F10
FS00 D5
FS06 B9
IS01 D2
IS02 D5
IS03 F8
IS04 D10
IS05 B8
IS07 B8
IS08 F12
IS09 D4
IS10 F10
IS11 F7
IS12 B9
IS13 B5
IS14 E9
IS15 C4
IS16 F8
IS17 E2
IS18 B6
IS19 B5
IS20 E3
IS21 F2
IS23 C8
IS24 C6
IS25 F2
IS26 F1
IS27 F1
IS28 G1
IS29 E1
IS30 C4
IS32 C5
IS33 C5
IS37 D8
IS38 D8
IS39 E1
IS45 E4
IS47 C3
IS48 E12
IS49 D5
IS50 B6
IS51 B6
IS53 G6
IS58 F8
IS59 E9
IS61 F11
IS68 F11
IS71 F6
IS99 D5

Platform Supply 37”: 25W Supply


A5
25W SUPPLY
A5
1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
HOT GROUND
COLD GROUND
1U01
HEATSINK
(7U02)
5U07
120R
GNDHOT
1U11
HEATSINK
(6E13)
GND-25W
VAC-N
VAC-RELAY
6U09
DF06M
FU03
GNDHOT
IU29
1U00
T 1.0A 250V
IU26
5U04
33u
FU05
280V(0V)
5U05
80R
2U07
10u
450V
2U08
10u
450V
2U02
10n
GNDHOT
IU05
6U22
BYV27-600
2U22
47n
3U22
330K
3U25
330K
RES
IU14
5U03
80R
IU15
IU20
5U00
6U07
BYW29EX-200
FU07
IU17
5U10
80R
IU12
2U05
2n2
2U14
2m2
16V
5U17
15u
9U17
RES
+12VB
FU00
1M07
FU01
GND-25W
IU16
5U08
30R
9U18
RES
GND-SCR
2U06
470p
GNDHOT
1M09
7U10
TEA1533AT/N1
VCC
SPMS
CTRL
CTRL
DEM
ISENSE
DRIVER
DRAIN
HVS
NC
GND
2U09
22u 50V
3U07
22R
IU22
7U02
STP6NK60Z
IU32
IU21
6U05
BZX384-C15
3U08
0R47
3U09
0R47
FU06
3U05
470R
IU23
3U06
12K
2U11
470n
IU34
3U10
1K0
2U10
22n
IU13
5U06
22u
IU07
IU33
IU31
3U17
4K7
IU08
IU09
7U01
TCET1102(G)
IU01
3U12
1K0
3U11
2K2
RES
3U13
6K8
IU02
2U13
47n
IU28
3U14
15K
7U05
TS2431
IU04
3U15
1K8
3U16
47K
IU25
GND screw
1000
6U11
BAS316
3U04
33K
IU18
3U23
56K
IU10
3U01
100K
IU06
3U02
470K
IU19
6U03
BYG22D
3U03
33K
6U04
BAT54 COL
RES
IU03
6U02
BAS316
IU11
IU24
7U15
BC817-25W
3U19
2R2
IU30
3U18
4K7
2U15
22u 50V
3U32
2K2
6U15
BZX384-C15
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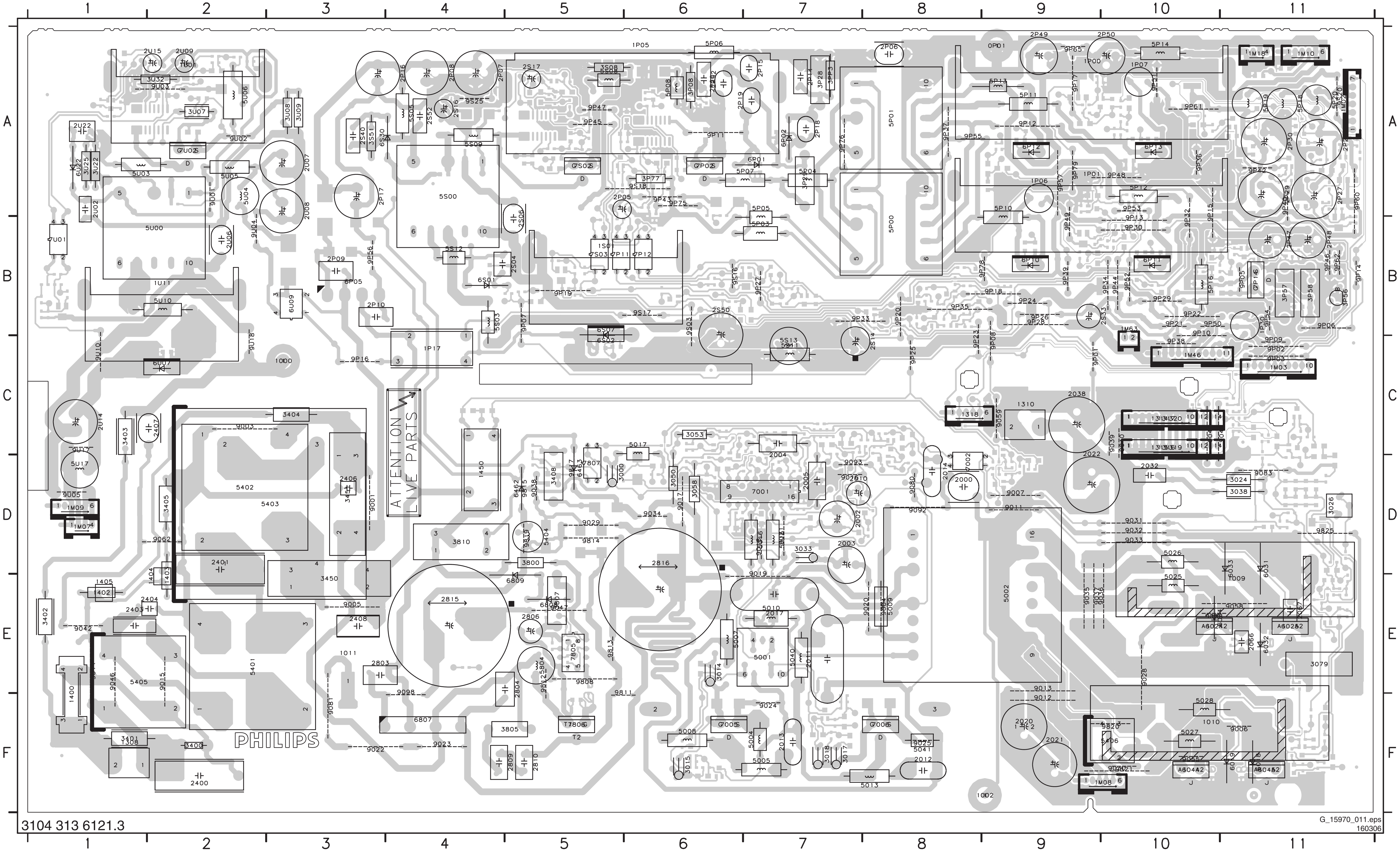
Item	Location
1000	D9
1M07	B9
1M09	C9
1U00	B2
1U01	A4
1U11	A8
2U02	B3
2U05	B7
2U06	C6
2U07	B3
2U08	B3
2U09	C3
2U10	C2
2U11	C4
2U13	D7
2U14	B8
2U15	F4
2U22	B5
3U01	D3
3U02	D3
3U03	E4
3U04	D4
3U05	C4
3U06	C4
3U07	C4
3U08	C5
3U09	C5
3U10	C2
3U11	D7
3U12	D7
3U13	D7
3U14	D7
3U15	E7
3U16	E8
3U17	D5
3U18	F4
3U19	E4
3U22	B5
3U23	D2
3U25	B6
3U32	F5
5U00	B6
5U03	B5
5U04	B3
5U05	B3
5U06	D5
5U07	A4
5U08	C6
5U10	B7
5U17	B8
6U02	E2
6U03	E4
6U04	E2
6U05	C4
6U07	B7
6U09	B1
6U11	D3
6U15	F3
6U22	B5
7U01	D6
7U02	C5
7U05	E7
7U10	C3
7U15	E3
9U17	B8
9U18	B7
FU00	B9
FU01	C9
FU03	B1
FU05	B3
FU06	C5
FU07	B7
IU01	D7
IU02	E7
IU03	E1
IU04	E7
IU05	A5
IU06	E3
IU07	D5
IU08	D5
IU09	D5
IU10	D3
IU11	E3
IU12	B7
IU13	D4
IU14	B5
IU15	B5
IU16	B6
IU17	B6
IU18	D2
IU19	D4
IU20	B5
IU21	C5
IU22	C4
IU23	C4
IU24	E4
IU25	D9
IU26	B2
IU28	D7
IU29	B2
IU30	F3
IU31	D5
IU32	C5
IU33	D4
IU34	C3

Layout Power Supply 37” (Top Side)

0P01	A9	1318	C8	1M08	F10	1P30	C11	2013	F7	2403	E1	2P05	A5	2P20	A6	2S14	C8	2U14	C1	3050	D6
1000	C3	1319	D10	1M09	D1	1S01	B5	2014	C8	2404	E2	2P06	A8	2P27	A11	2S16	A4	2U15	A2	3053	C6
1002	F9	1320	C10	1M10	A11	1U01	A1	2017	D7	2406	D3	2P07	A4	2P28	A11	2S17	A5	2U22	A1	3058	D6
1009	E10	1400	F1	1M18	A11	1U11	B1	2020	F9	2407	C1	2P08	A4	2P29	A11	2S33	B9	3000	D5	3079	E11
1010	E9	1402	E1	1M46	C10	2000	D9	2021	F9	2408	E3	2P09	B3	2P30	A11	2S40	A3	3014	E6	3400	F2
1011	F3	1403	D2	1M63	B10	2002	D7	2022	D9	2803	E3	2P10	B3	2P47	B11	2S50	B6	3015	F6	3401	F1
1308	F1	1404	E1	1P00	A8	2003	D7	2032	D10	2804	E5	2P14	A7	2P48	B11	2S52	A4	3017	F7	3402	E1
1310	C9	1405	E1	1P01	A8	2004	C7	2038	C10	2806	E5	2P15	A7	2P49	A9	2U02	A1	3018	F7	3403	C1
1314	C10	1450	D4	1P05	A5	2005	C7	2066	E11	2809	F4	2P16	A3	2P50	A10	2U06	B2	3024	D10	3404	C3
1315	D10	1M02	A11	1P06	A9	2010	D8	2067	E11	2810	F5	2P17	A3	2P52	A6	2U07	A3	3026	D11	3405	D2
1316	D10	1M03	C11	1P07	A10	2011	E7	2400	F2	2815	D4	2P18	A7	2S04	B5	2U08	A3	3033	D7	3408	D5
1317	C10	1M07	D1	1P17	B4	2012	F8	2401	E2	2816	D6	2P19	A7	2S06	A5	2U09	A2	3038	D10	3450	D3

3451	D3	3PP3	A7	5005	F7	5028	F10	5P03	B6	5P18	A11	5U03	A1	6033	D11	6P10	B9	7002	D9	7U01	B1
3800	D5	3S08	A5	5007	E6	5040	E7	5P04	A7	5P19	A11	5U04	B2	6034	E10	6P11	B10	7005	F6	7U02	A2
3805	F5	3S51	A3	5008	F6	5041	F8	5P05	B6	5P20	A11	5U05	A2	6044	F10	6P12	A9	7006	F8	9001	D3
3807	E5	3U07	A2	5009	E8	5401	E3	5P06	A6	5S00	A4	5U06	A2	6045	F11	6P13	A10	7805	E5	9003	C2
3810	D4	3U08	A3	5010	E7	5402	C2	5P07	A7	5S03	B4	5U10	B2	6462	D5	6S01	B4	7806	F5	9004	E8
3P08	A6	3U09	A3	5013	F8	5403	C3	5P08	A6	5S05	A4	5U17	D1	6463	D5	6S02	C5	7807	C5	9005	E3
3P28	A7	3U22	A1	5015	D7	5404	D5	5P10	A9	5S08	A5	6018	F11	6807	F4	6S07	B5	7P02	A6	9006	F11
3P29	A7	3U25	A1	5016	D6	5405	E2	5P11	A9	5S09	A4	6019	F11	6808	E5	6S30	A3	7P11	B5	9007	D9
3P56	B11	3U32	A2	5017	C6	5406	F10	5P12	A10	5S11	C7	6021	E10	6809	E5	6U07	C2	7P12	B6	9011	D9
3P57	B11	5001	E7	5025	E10	5804	E5	5P13	A8	5S12	B4	6025	E11	6P01	A7	6U09	B3	7P14	B11	9012	F9
3P58	B11	5002	D9	5026	D10	5P00	B8	5P14	A10	5S13	B7	6031	D11	6P02	A7	6U22	A1	7S02	A5	9013	E9
3P77	A6	5004	F7	5027	F10	5P01	A7	5P16	B10	5U00	B2	6032	E11	6P05	B4	7001	D7	7S03	B5	9014	E1

9015	E2	9029	D5	9042	E1	9083	D11	9820	F10	9P11	A6	9P23	C8	9P36	A10	9P49	A9	9P65	A9	9U02	A2
9016	D7	9030	F10	9043	D11	9092	D8	9821	F10	9P12	A9	9P24	B9	9P37	A8	9P50	B10	9P75	A6	9U03	A2
9017	D6	9031	D9	9045	D10	9093	D7	9825	D11	9P13	A10	9P25	C8	9P38	C10	9P51	A10	9P76	A7	9U04	B2
9018	D7	9032	D9	9046	E1	9098	E4	9P01	C9	9P14	B11	9P26	B9	9P39	B9	9P52	B10	9P78	B8	9U05	D1
9019	D7	9033	D9	9047	E5	9808	E5	9P02	C11	9P15	A10	9P27	B7	9P40	A11	9P53	A10	9P79	A9	9U10	C1
9020	E8	9034	D6	9055	F10	9811	E5	9P03	C11	9P16	C3	9P28	B9	9P42	A11	9P54	B11	9S03	B6	9U17	C1
9021	D7	9035	E9	9056	E10	9812	F5	9P05	B11	9P17	A9	9P29	B10	9P43	A6	9P55	A8	9S16	B6	9U18	C2
9022	F3	9036	E10	9058	E11	9813	E5	9P06	B11	9P18	B9	9P30	B10	9P44	B10	9P56	B3	9S17	B6		
9023	F4	9037	E9	9059	C9	9814	D5	9P07	B5	9P19	B5	9P32	A10	9P45	A5	9P57	A9	9S18	A6		
9024	F7	9038	D5	9062	D2	9815	C5	9P08	C9	9P20	B8	9P33	B7	9P46	B11	9P60	A11	9S20	A11		
9025	F8	9039	C10	9080	D8	9817	C5	9P09	C11	9P21	B10	9P34	B10	9P47	A5	9P61	A10	9S25	A4		
9028	E10	9040	C10	9081	F3	9819	D5	9P10	B10	9P22	B10	9P35	B8	9P48	A10	9P62	B11	9U01	A2		



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Layout Power Supply 37” (Overview Bottom Side)

1P03	A9
1U00	B9
2001	E1
2006	D5
2007	D6
2008	C5
2009	D5
2015	C5
2016	D6
2018	C5
2019	D6
2023	D1
2024	E1
2025	D1
2026	C6
2027	D6
2028	F2
2029	E1
2030	E1
2031	D1
2033	D1
2034	D5
2035	D5
2036	F1
2037	F1
2039	E1
2040	D5
2041	D1
2042	D1
2043	D1
2044	F1
2045	E1
2046	D5
2047	C5
2048	D5
2049	E1
2050	C6
2051	D1
2052	D1
2053	D1
2060	F6
2061	E6
2062	F5
2063	D5
2064	D5
2065	F5
2071	F5
2072	F6
2077	C4
2402	D3
2409	C1
2802	E7
2805	E7
2807	E7
2808	F7
2P01	B2
2P02	A2
2P03	A6
2P04	A6
2P11	A6
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2P23	B1
2P24	B2
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2P34	A1
2P35	A1
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2P37	A1
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2P51	A1
2P53	A1
2P54	B4
2P55	A2
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2P57	B5
2P64	B3
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2S13	C7
2S15	A7
2S18	A7
2S39	B2
2S41	B8
2S54	B6
2S56	B1
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2U10	A10
2U11	A10
2U13	B11
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3002	D5
3003	D5
3004	D5
3005	D5
3006	D5
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3008	D6
3009	D6
3010	D5
3011	D6
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3013	C5
3016	F6
3019	F5
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3023	E1
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3027	C6
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3060	C6
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3064	C6
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3067	D4
3068	C4
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3804	E7
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3P05	A3
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3P69	A6
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3P71	A3
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3P74	A6
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3PP2	B4
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6U04	A11
6U05	A10
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6U15	A11
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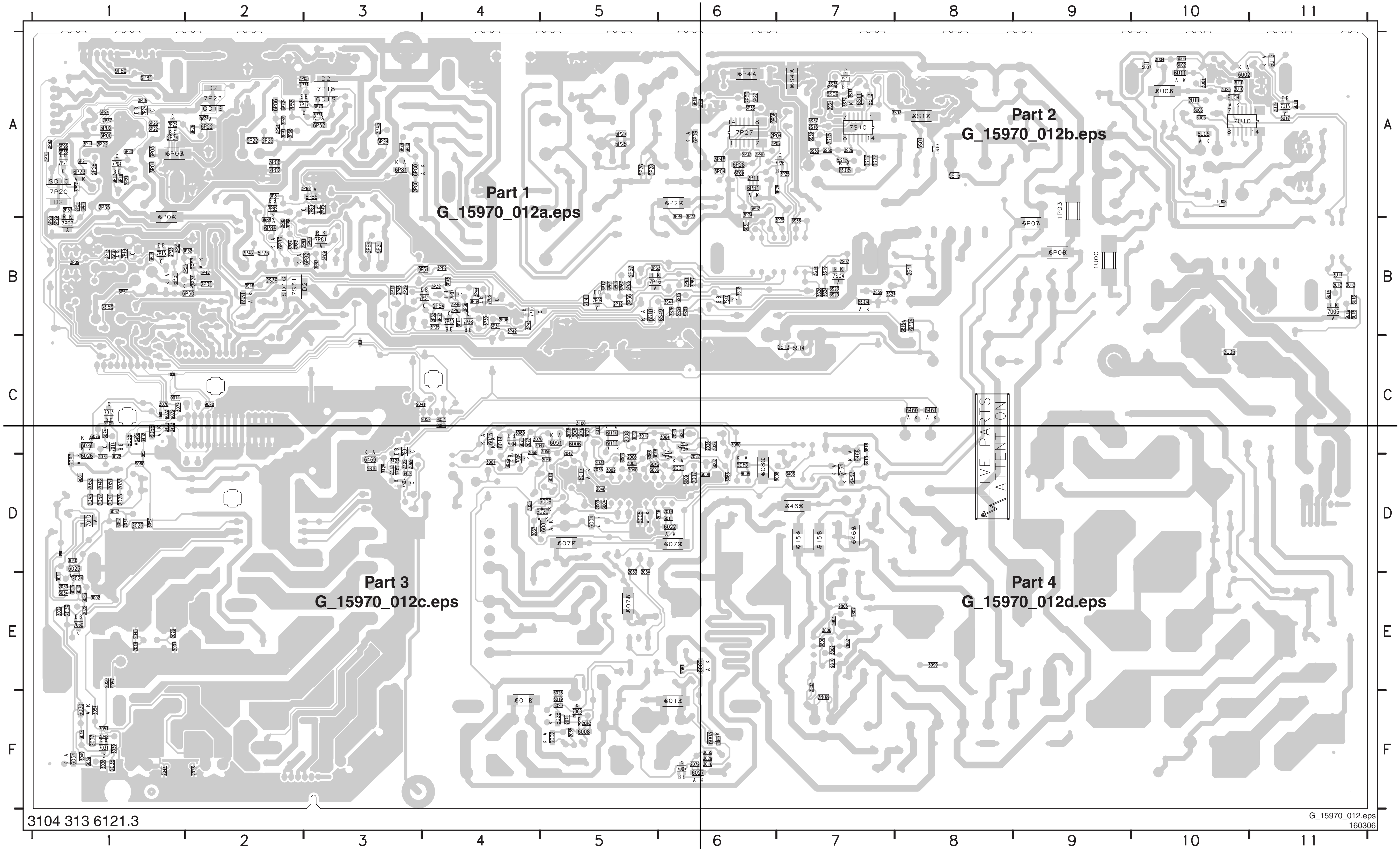

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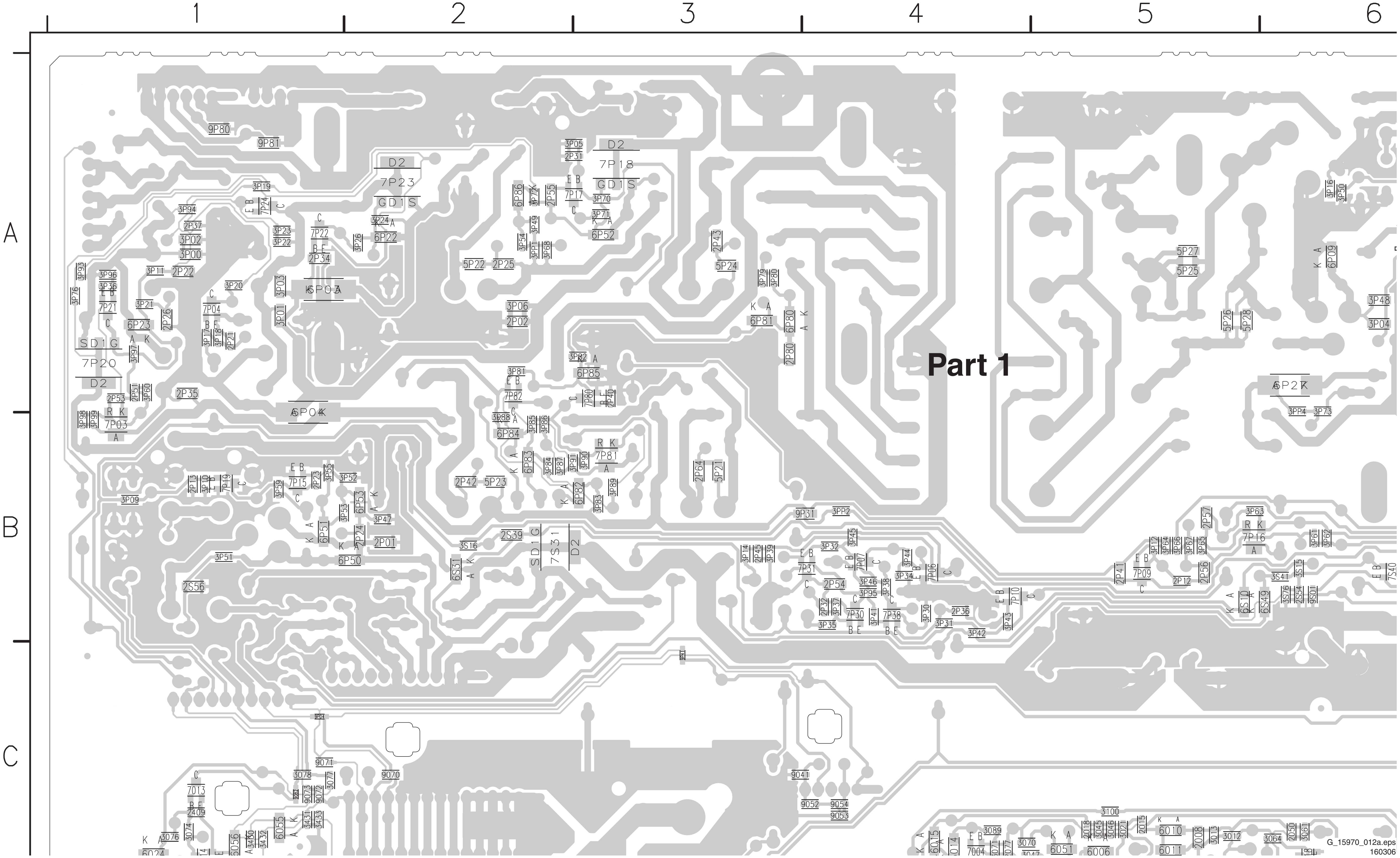
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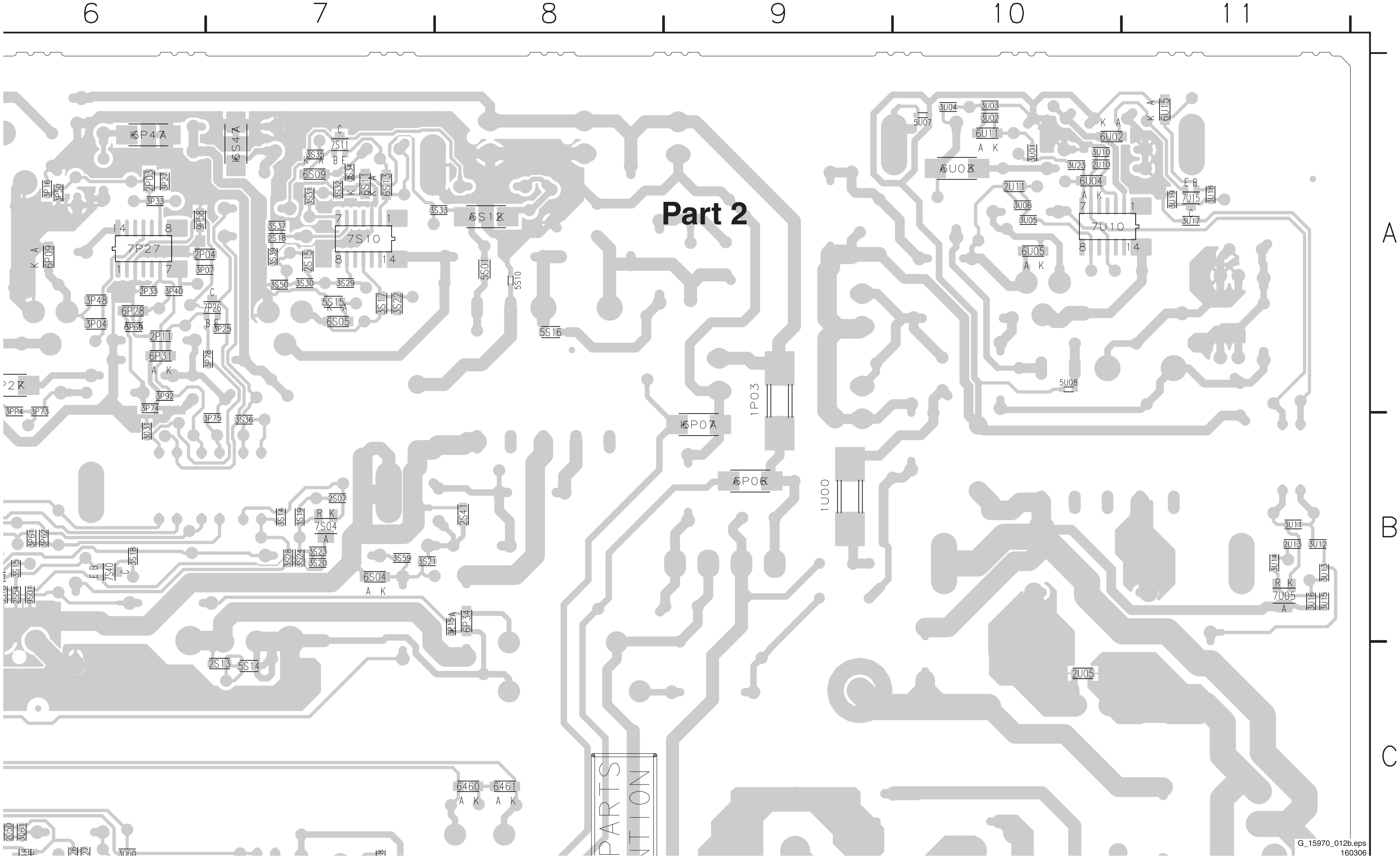
Layout Power Supply 37" (Part 2 Bottom Side)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6P09
K A
2P33
3P40
7P26
C
B E
3P25
3P48
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A K
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3P92
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3S36
3PP4
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7S11
C
B E
3S35
6S09
3S34
3S31
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3S37
2S18
7S10
7
1
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14
3S39
2S15
3S50
3S30
3S29
5S15
6S05
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6P08
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6U02
K A
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2U10
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2U11
6U04
A K
3U06
3U05
3U19
7U15
E B
C
3U18
3U17
7U10
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6U05
A K
5U08
2S07
3S14
3S19
7S04
R K
A
2S41
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3P62
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7S40
E B
C
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3S21
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A K
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9S01
2S13
5S14
3U11
2U13
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3U14
3U13
7U05
R K
A
3U16
3U15
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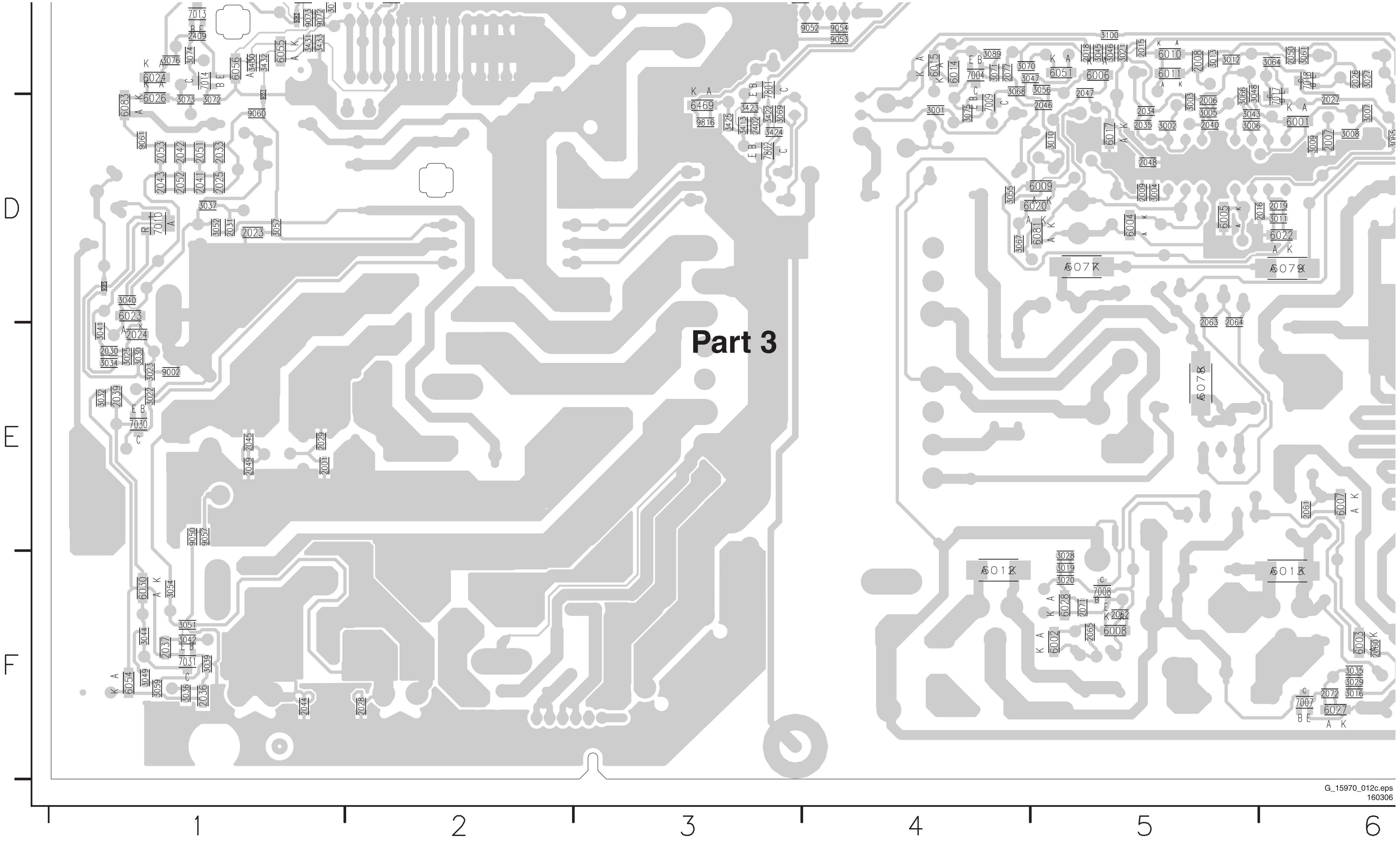
Layout Power Supply 37” (Part 3 Bottom Side)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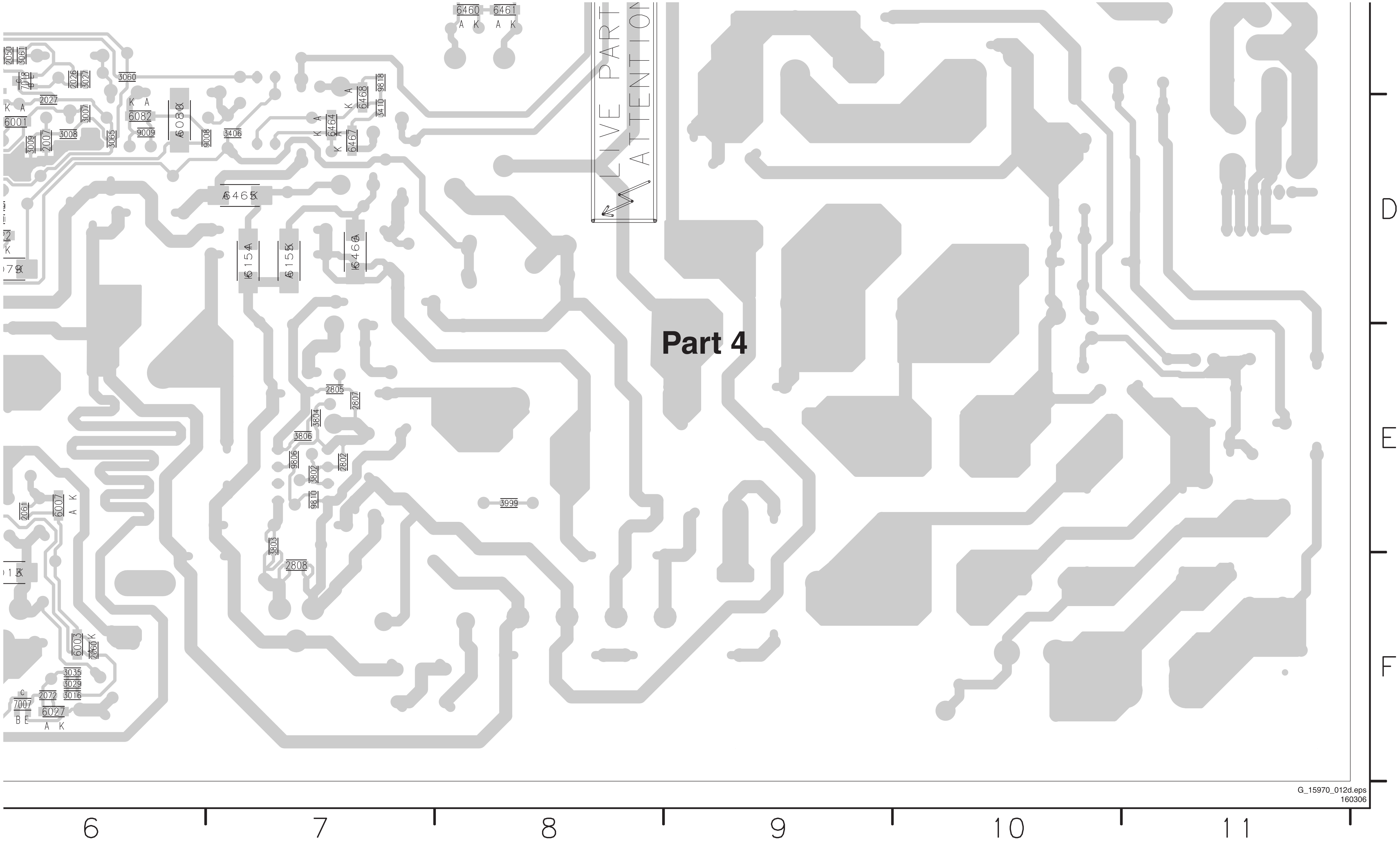
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9008
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9818
3009
2007
3008
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6466
LIVE PART
ATTENTION
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3016
7007
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B E
A K
D
E
F
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160306
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Ambi Light

0101 D1	2001 A3	2017 D2	2041 B7	2078 E8	3008 C6	3020 A4	3032 E7	3046 E8	3065 E6	6003 C6	6015 E6	7015-2 A7	A029 C10	F019 C2	F041 A7	I001 A2	I013 E3	I029 C9
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1M10 B1	2011 B6	2023 E2	2061 D7	2085 D7	3014 A7	3026 D2	3039 E4	3054 C7	5014 A10	6009 C6	7002 A3	7019 B5	F009 D1	F034 D7	F048 A5	I007 A6	I019 E8	I040 A7
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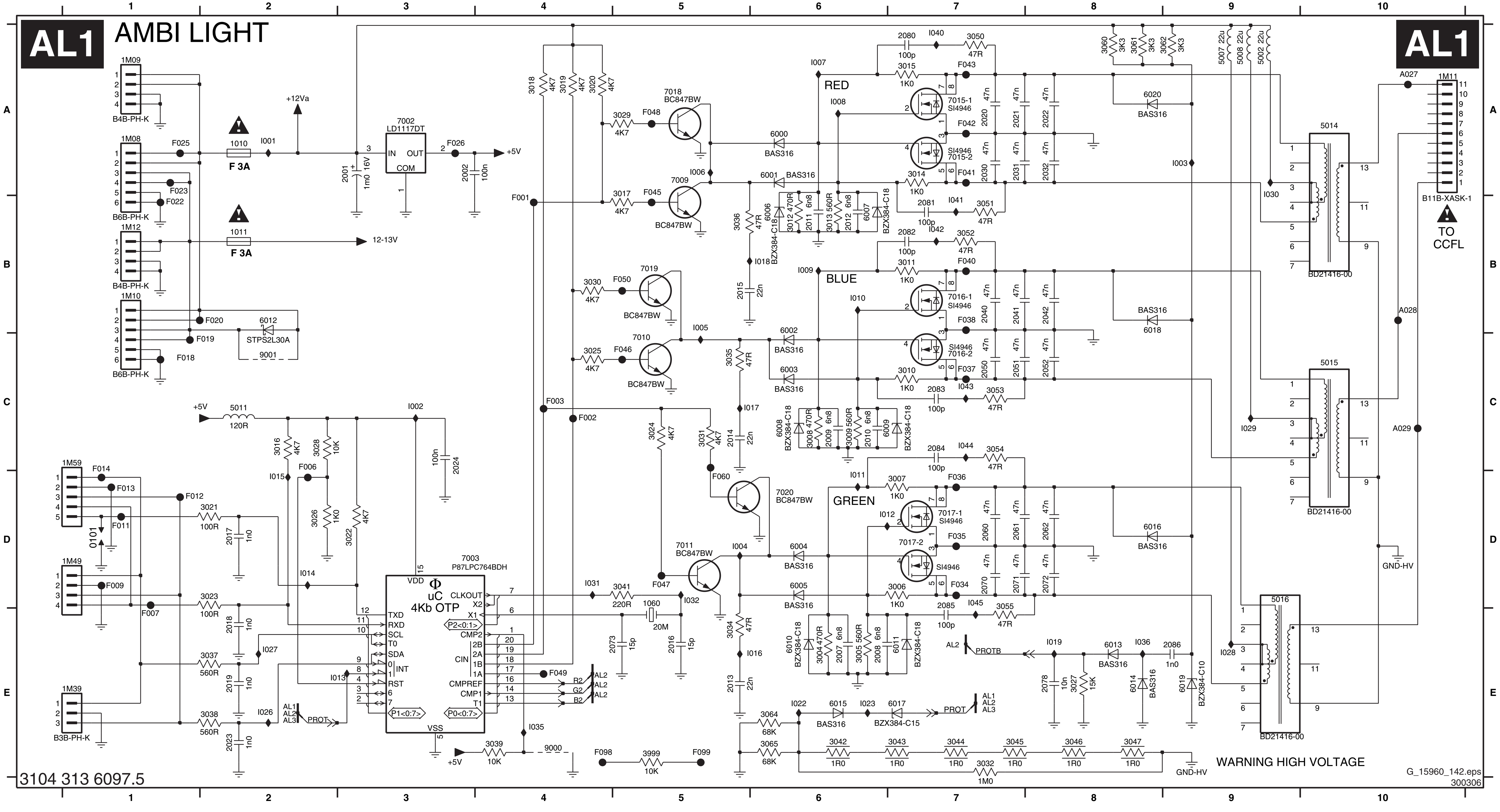
1M12 B1	2013 E5	2030 A7	2070 D7	3004 E6	3016 C2	3028 C2	3042 E6	3060 A8	5016 D9	6011 E7	7009 A5	9000 E4	F012 D1	F036 D7	F050 B5	I009 B6	I023 E6	I042 B7
1M39 E1	2014 C5	2031 A7	2071 D7	3005 E6	3017 B5	3029 A5	3043 E7	3061 A8	6000 A6	6012 B2	7010 C5	9001 C2	F013 D1	F037 C7	F060 D5	I010 B6	I026 E2	I043 C7
1M49 D1	2015 B5	2032 A8	2072 D8	3006 D7	3018 A4	3030 B4	3044 E7	3062 A9	6001 A6	6013 E8	7011 D5	A027 A10	F014 D1	F038 B7	F098 E4	I011 D6	I027 E2	I044 C7
1M59 C1	2016 E5	2040 B7	2073 E5	3007 D7	3019 A4	3031 C5	3045 E7	3064 E6	6002 B6	6014 E8	7015-1 A7	A028 B10	F018 C1	F040 B7	F099 E5	I012 D6	I028 E9	I045 D7



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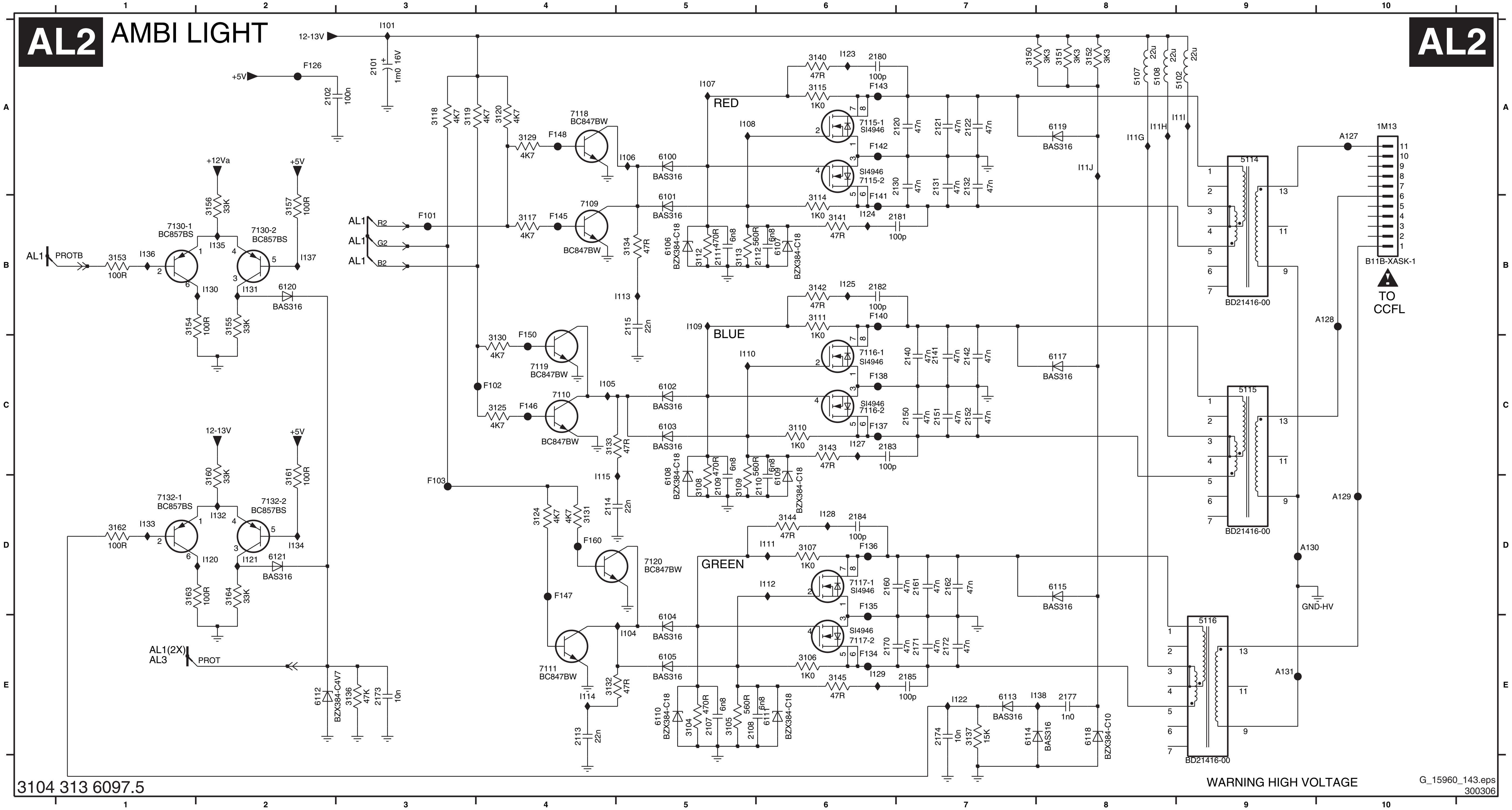
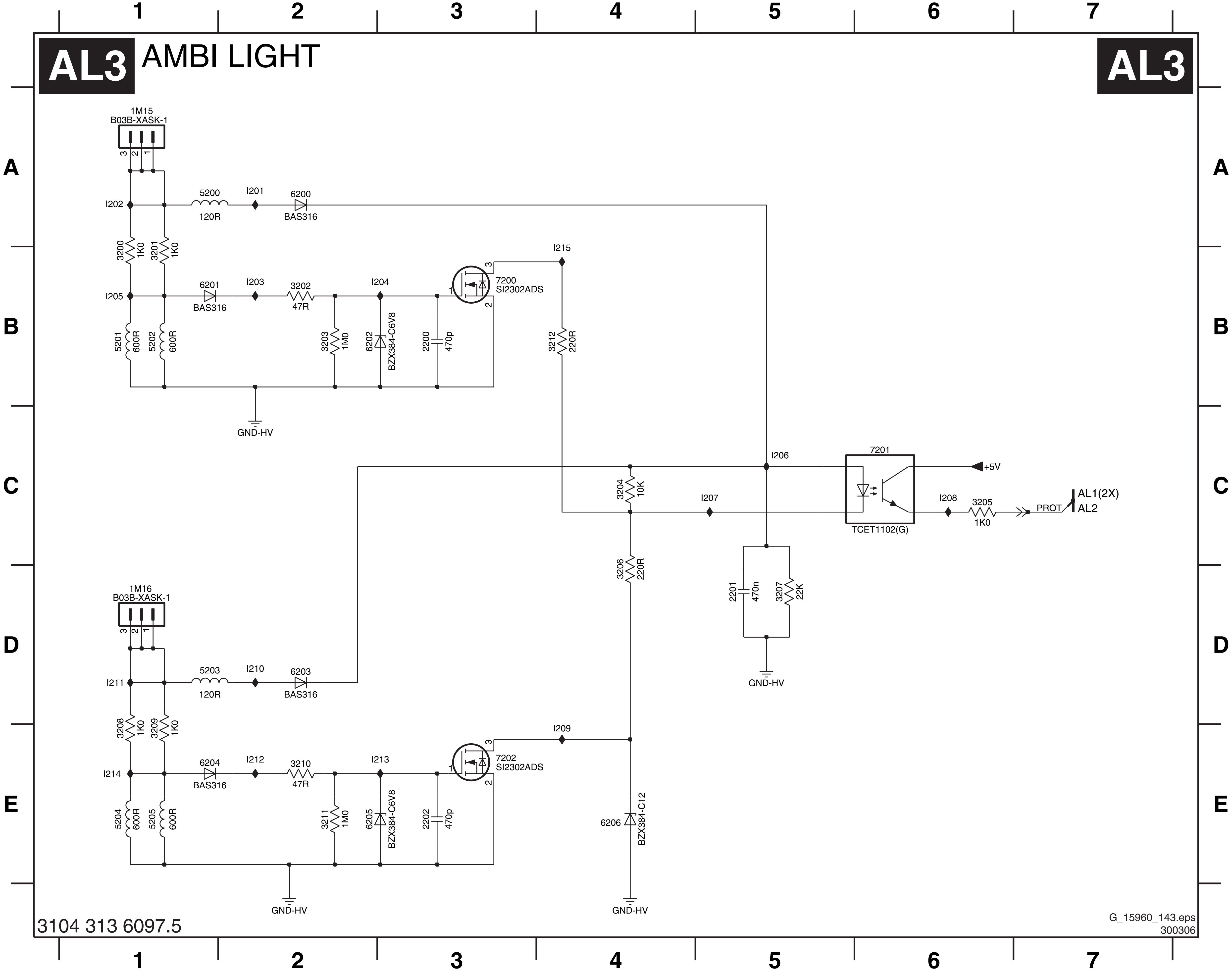
F 3A
I001
+12Va
7002
LD1117DT
IN
OUT
COM
F026
+5V
2001
1m0 16V
2002
100n
1011
F 3A
12-13V
F023
F022
F020
F019
F018
6012
STPS2L30A
9001
3018 4K7
3019 4K7
3020 4K7
7018
BC847BW
3029 4K7
F048
7009
BC847BW
3017 4K7
F045
I006
F001
7019
BC847BW
3030 4K7
F050
7010
BC847BW
3025 4K7
F046
I005
F003
F002
RED
BLUE
GREEN
I007
I008
I009
I010
I011
I012
7015-1 SI4946
7015-2 SI4946
7016-1 SI4946
7016-2 SI4946
7017-1 SI4946
7017-2 SI4946
6000 BAS316
6001 BAS316
6002 BAS316
6003 BAS316
6004 BAS316
6005 BAS316
6006 BZX384-C18
6007 BZX384-C18
6008 BZX384-C18
6009 BZX384-C18
6010 BZX384-C18
6011 BZX384-C18
2080 100p
I040
3050 47R
3015 1K0
F043
F042
F041
3014 1K0
2081 100p
I041
3051 47R
2082 100p
I042
3052 47R
3011 1K0
F040
F038
F037
3010 1K0
2083 100p
I043
3053 47R
2084 100p
I044
3054 47R
3007 1K0
F036
F035
F034
3006 1K0
2085 100p
I045
3055 47R
3060 3K3
3061 3K3
3062 3K3
5007 22u
5008 22u
5002 22u
6020 BAS316
6018 BAS316
6016 BAS316
I003
I030
I029
I028
5014
5015
5016
BD21416-00
A027
A028
A029
1M11
B11B-XASK-1
TO CCFL
GND-HV
3036 47R
I018
2015 22n
3035 47R
I017
2014 22n
3034 47R
I016
2013 22n
+5V
5011
120R
I002
2024 100n
3016 4K7
3028 10K
I015
F006
3026 1K0
3022 4K7
3024 4K7
3031 4K7
F060
7020
BC847BW
7011
BC847BW
I004
F047
1M59
F014
F013
F012
F011
0101
3021 100R
2017 1n0
1M49
F009
F007
3023 100R
2018 1n0
I014
3037 560R
2019 1n0
I027
I013
1M39
B3B-PH-K
3038 560R
2023 1n0
I026
AL1 AL2 AL3
PROT
7003
P87LPC764BDH
VDD
uC
4Kb OTP
TXD
RXD
SCL
T0
SDA
INT
RST
CLKOUT
X2
X1
P2<0:1>
CMP2
2B
2A
1B
1A
CIN
CMPREF
CMP1
T1
P1<0:7>
P0<0:7>
VSS
I031
3041 220R
1060 20M
I032
2073 15p
2016 15p
F049
R2 G2 B2
AL2
I035
3039 10K
9000
F098
3999 10K
F099
AL2
PROTB
I019
6013 BAS316
I036
2086 1n0
2078 10n
3027 15K
6014 BAS316
6019 BZX384-C10
I022
6015 BAS316
I023
6017 BZX384-C15
PROT
3064 68K
3065 68K
3042 1R0
3043 1R0
3044 1R0
3045 1R0
3046 1R0
3047 1R0
3032 1M0
GND-HV
WARNING HIGH VOLTAGE
3104 313 6097.5
G_15960_142.eps
300306
A B C D E
1 2 3 4 5 6 7 8 9 10

Ambi Light

1M13	A10
2101	A3
2102	A2
2107	E5
2108	E5
2109	D5
2110	D6
2111	B5
2112	B6
2113	E4
2114	D4
2115	B5
2120	A6
2121	A7
2122	A7
2130	A6
2131	A7
2132	A7
2140	C7
2141	C7
2142	C7
2150	C7
2151	C7
2152	C7
2160	D6
2161	D7
2162	D7
2170	E6
2171	E7
2172	E7
2173	E3
2174	E7
2177	E8
2180	A6
2181	B7
2182	B6
2183	C6
2184	D6
2185	E7
3104	E5
3105	E5
3106	E6
3107	D6
3108	D5
3109	D5
3110	C6
3111	B6
3112	B5
3113	B5
3114	B6
3115	A6
3117	B4
3118	A3
3119	A3
3120	A4
3124	D4
3125	C4
3129	A4
3130	C4
3131	D4
3132	E4
3133	C4
3134	B5
3136	E3
3137	E7
3140	A6
3141	B6
3142	B6
3143	C6
3144	D6
3145	E6
3150	A7
3151	A8
3152	A8
3153	B1
3154	B1
3155	B2
3156	B2
3157	B2
3160	D2
3161	D2
3162	D1
3163	D1
3164	D2
5102	A9
5107	A8
5108	A8
5114	A9
5115	C9
5116	E9
6100	A5
6101	B5
6102	C5
6103	C5
6104	E5
6105	E5
6106	B5
6107	B6
6108	D5
6109	D6
6110	E5
6111	E6
6112	E2
6113	E7
6114	E7
6115	D8
6117	C8
6118	E8
6119	A8
6120	B2
6121	D2
7109	B4
7110	C4
7111	E4
7115-1	A6
7115-2	A6
7116-1	C6
7116-2	C6
7117-1	D6
7117-2	E6
7118	A4
7119	C4
7120	D5
7130-1	B1
7130-2	B2
7132-1	D1
7132-2	D2
A127	A10
A128	B10
A129	D10
A130	D9
A131	E9
F101	B3
F102	C4
F103	D3
F126	A2
F134	E6
F135	D6
F136	D6
F137	C6
F138	C6
F140	B6
F141	B6
F142	A6
F143	A6
F145	B4
F146	C4
F147	D4
F148	A4
F150	C4
F160	D4
I101	A3
I104	E5
I105	C4
I106	A5
I107	A5
I108	A5
I109	B5
I110	C5
I111	D6
I112	D6
I113	B5
I114	E4
I115	D4
I11G	A8
I11H	A8
I11I	A9
I11J	A8
I120	D2
I121	D2
I122	E7
I123	A6
I124	B6
I125	B6
I127	C6
I128	D6
I129	E6
I130	B2
I131	B2
I132	D2
I133	D1
I134	D2
I135	B2
I136	B1
I137	B2
I138	E8

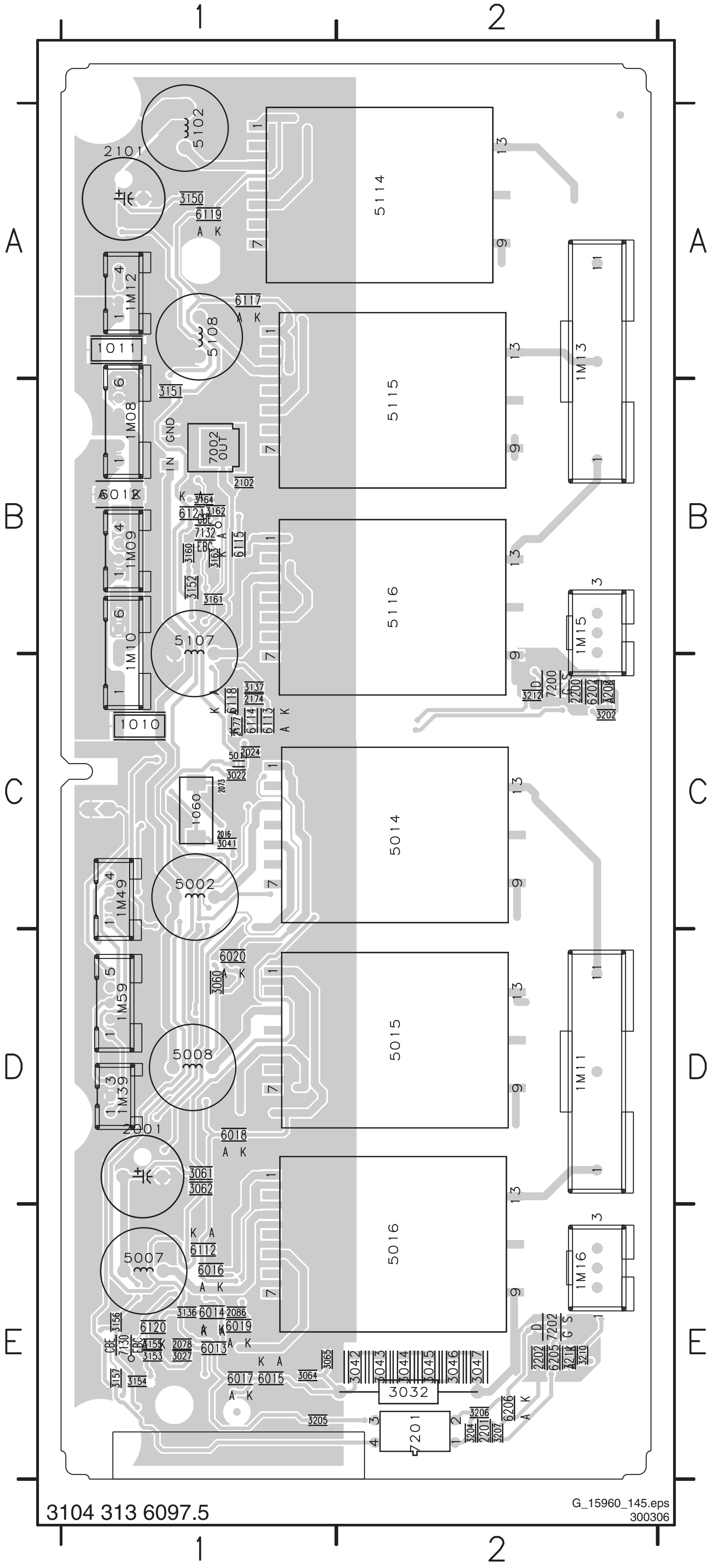

AL2
AMBI LIGHT
AL2
1 2 3 4 5 6 7 8 9 10
A B C D E
12-13V
I101
+5V
F126
2102 100n
2101 1m0 16V
3118 4K7
3119 4K7
3120 4K7
3129 4K7
F148
7118 BC847BW
I106
6100 BAS316
I107
RED
3140 47R
I123
2180 100p
3115 1K0
F143
I108
7115-1 SI4946
2120 47n
2121 47n
2122 47n
F142
SI4946 7115-2
2130 47n
2131 47n
2132 47n
F141
3114 1K0
I124
2181 100p
3141 47R
6101 BAS316
7109
3117 4K7
F145
BC847BW
3134 47R
6106 BZX384-C18
3112 470R
2111 6n8
3113 560R
2112 6n8
6107 BZX384-C18
I113
2115 22n
3150 3K3
3151 3K3
3152 3K3
5107 22u
5108 22u
5102 22u
6119 BAS316
I11G
I11H
I11I
I11J
5114
BD21416-00
A127
1M13
B11B-XASK-1
TO CCFL
+12Va
3156 33K
+5V
3157 100R
7130-1 BC857BS
7130-2 BC857BS
I135
AL1 PROTB
3153 100R
I136
I137
I130
I131
6120 BAS316
3154 100R
3155 33K
AL1 R2
AL1 G2
AL1 B2
F101
3142 47R
I125
2182 100p
I109
BLUE
3111 1K0
F140
I110
7116-1 SI4946
2140 47n
2141 47n
2142 47n
F138
SI4946 7116-2
2150 47n
2151 47n
2152 47n
F137
3110 1K0
I127
2183 100p
3143 47R
6117 BAS316
5115
BD21416-00
A128
3130 4K7
F150
7119 BC847BW
F102
I105
6102 BAS316
3125 4K7
F146
7110
BC847BW
6103 BAS316
3133 47R
I115
2114 22n
6108 BZX384-C18
3108 470R
2109 6n8
3109 560R
2110 6n8
6109 BZX384-C18
F103
12-13V
3160 33K
+5V
3161 100R
7132-1 BC857BS
7132-2 BC857BS
I132
3162 100R
I133
I134
I120
I121
6121 BAS316
3163 100R
3164 33K
3124 4K7
3131 4K7
F160
7120 BC847BW
F147
3144 47R
I128
2184 100p
I111
GREEN
3107 1K0
F136
I112
7117-1 SI4946
2160 47n
2161 47n
2162 47n
F135
SI4946 7117-2
2170 47n
2171 47n
2172 47n
F134
3106 1K0
I129
2185 100p
3145 47R
6115 BAS316
A129
A130
GND-HV
5116
BD21416-00
A131
6104 BAS316
I104
6105 BAS316
7111 BC847BW
3132 47R
I114
2113 22n
6110 BZX384-C18
3104 470R
2107 6n8
3105 560R
2108 6n8
6111 BZX384-C18
AL1(2X) AL3 PROT
6112 BZX384-C4V7
3136 47K
2173 10n
I122
6113 BAS316
I138
2177 1n0
2174 10n
3137 15K
6114 BAS316
6118 BZX384-C10
3104 313 6097.5
WARNING HIGH VOLTAGE
G_15960_143.eps
300306

Ambi Light


AL3
AMBI LIGHT
AL3
1
2
3
4
5
6
7
A
B
C
D
E
1M15
B03B-XASK-1
3
2
1
I202
5200
120R
I201
6200
BAS316
3200
1K0
3201
1K0
I215
I205
6201
BAS316
I203
3202
47R
I204
7200
SI2302ADS
5201
600R
5202
600R
3203
1M0
6202
BZX384-C6V8
2200
470p
3212
220R
GND-HV
I206
7201
+5V
3204
10K
I207
I208
3205
1K0
PROT
AL1(2X)
AL2
TCET1102(G)
3206
220R
2201
470n
3207
22K
GND-HV
1M16
B03B-XASK-1
I211
5203
120R
I210
6203
BAS316
3208
1K0
3209
1K0
I209
I214
6204
BAS316
I212
3210
47R
I213
7202
SI2302ADS
5204
600R
5205
600R
3211
1M0
6205
BZX384-C6V8
2202
470p
6206
BZX384-C12
GND-HV
GND-HV
3104 313 6097.5
G_15960_143.eps
300306

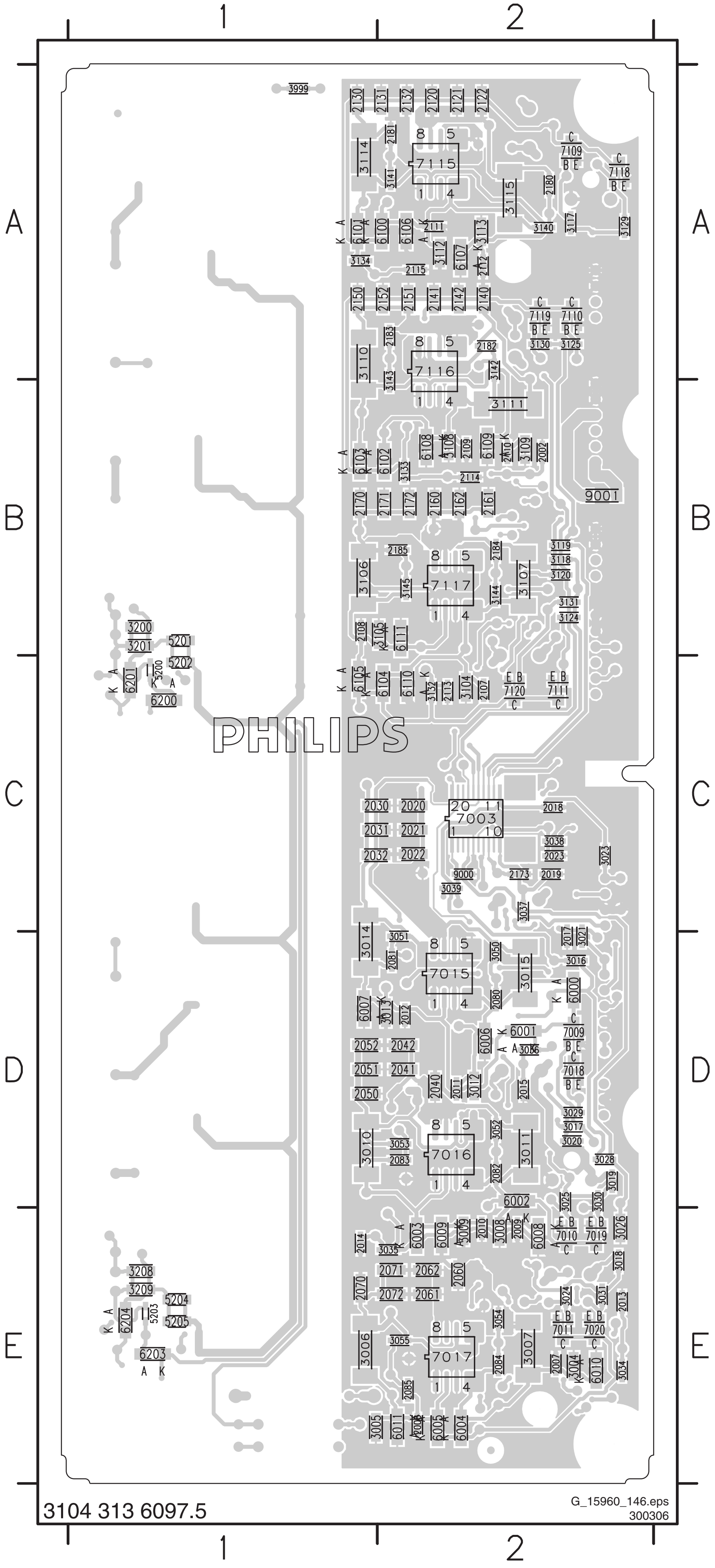
1M15	A1
1M16	D1
2200	B3
2201	D5
2202	E3
3200	B1
3201	B1
3202	B2
3203	B2
3204	C4
3205	C6
3206	D4
3207	D5
3208	E1
3209	E1
3210	E2
3211	E2
3212	B4
5200	A1
5201	B1
5202	B1
5203	D1
5204	E1
5205	E1
6200	A2
6201	B1
6202	B2
6203	D2
6204	E1
6205	E2
6206	E4
7200	B3
7201	C6
7202	E3
I201	A2
I202	A1
I203	B2
I204	B3
I205	B1
I206	C5
I207	C5
I208	C6
I209	E4
I210	D2
I211	D1
I212	E2
I213	E3
I214	E1
I215	B4

Layout Ambi Light (Top Side)



1010	C1	6012	B1
1011	A1	6013	E1
1060	C1	6014	E1
1M08	B1	6015	E1
1M09	B1	6016	E1
1M10	B1	6017	E1
1M11	D2	6018	D1
1M12	A1	6019	E1
1M13	A2	6020	D1
1M15	B2	6112	E1
1M16	E2	6113	C1
1M39	D1	6114	C1
1M49	C1	6115	B1
1M59	D1	6117	A1
2001	D1	6118	C1
2016	C1	6119	A1
2024	C1	6120	E1
2073	C1	6121	B1
2078	E1	6202	C2
2086	E1	6205	E2
2101	A1	6206	E2
2102	B1	7002	B1
2174	C1	7130	E1
2177	C1	7132	B1
2200	C2	7200	C2
2201	E2	7201	E2
2202	E2	7202	E2
3022	C1		
3027	E1		
3032	E2		
3041	C1		
3042	E2		
3043	E2		
3044	E2		
3045	E2		
3046	E2		
3047	E2		
3060	D1		
3061	D1		
3062	D1		
3064	E1		
3065	E1		
3136	E1		
3137	C1		
3150	A1		
3151	B1		
3152	B1		
3153	E1		
3154	E1		
3155	E1		
3156	E1		
3157	E1		
3160	B1		
3161	B1		
3162	B1		
3163	B1		
3164	B1		
3202	C2		
3203	C2		
3204	E2		
3205	E1		
3206	E2		
3207	E2		
3210	E2		
3211	E2		
3212	C2		
5002	D1		
5007	E1		
5008	D1		
5011	C1		
5014	C2		
5015	D2		
5016	D2		
5102	A1		
5107	B1		
5108	A1		
5114	A2		
5115	B2		
5116	B2		

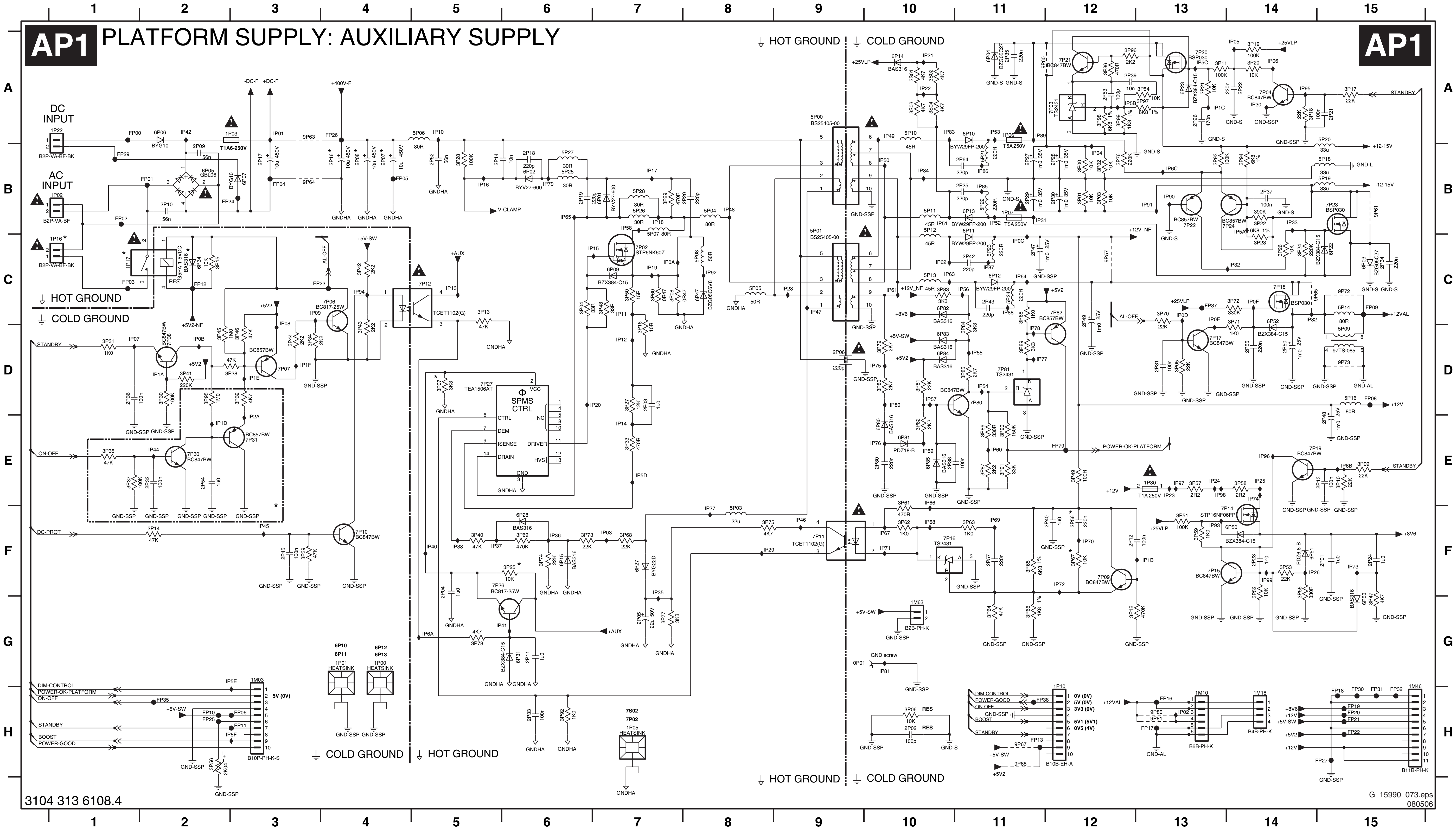
Layout Ambi Light (Bottom Side)



2002	B2	3011	D2	6007	D1
2007	E2	3012	D2	6008	E2
2008	E2	3013	D2	6009	E2
2009	E2	3014	C2	6010	E2
2010	E2	3015	D2	6011	E2
2011	D2	3016	D2	6100	A1
2012	D2	3017	D2	6101	A1
2013	E2	3018	E2	6102	B1
2014	E1	3019	D2	6103	B1
2015	D2	3020	D2	6104	C2
2017	D2	3021	D2	6105	C1
2018	C2	3023	C2	6106	A2
2019	C2	3024	E2	6107	A2
2020	C2	3025	D2	6108	B2
2021	C2	3026	E2	6109	B2
2022	C2	3028	D2	6110	C2
2023	C2	3029	D2	6111	B2
2030	C1	3030	D2	6200	C1
2031	C1	3031	E2	6201	C1
2032	C1	3034	E2	6203	E1
2040	D2	3035	E2	6204	E1
2041	D2	3036	D2	7003	C2
2042	D2	3037	C2	7009	D2
2050	D1	3038	C2	7010	D2
2051	D1	3039	C2	7011	E2
2052	D1	3050	D2	7015	C2
2060	E2	3051	D2	7016	D2
2061	E2	3052	D2	7017	E2
2062	E2	3053	D2	7018	D2
2070	E1	3054	E2	7019	E2
2071	E2	3055	E2	7020	E2
2072	E2	3104	C2	7109	A2
2080	D2	3105	B2	7110	A2
2081	D2	3106	B1	7111	C2
2082	D2	3107	B2	7115	A2
2083	D2	3108	B2	7116	A2
2084	E2	3109	B2	7117	B2
2085	E2	3110	A2	7118	A2
2107	C2	3111	B2	7119	A2
2108	B1	3112	A2	7120	C2
2109	B2	3113	A2	9000	C2
2110	B2	3114	A1	9001	B2
2111	A2	3115	A2		
2112	A2	3117	A2		
2113	C2	3118	B2		
2114	B2	3119	B2		
2115	A2	3120	B2		
2120	A2	3124	B2		
2121	A2	3125	A2		
2122	A2	3129	A2		
2130	A1	3130	A2		
2131	A2	3131	B2		
2132	A2	3132	C2		
2140	A2	3133	B2		
2141	A2	3134	A1		
2142	A2	3140	A2		
2150	A1	3141	A2		
2151	A2	3142	A2		
2152	A2	3143	B2		
2160	B2	3144	B2		
2161	B2	3145	B2		
2162	B2	3200	B1		
2170	B1	3201	B1		
2171	B2	3208	E1		
2172	B2	3209	E1		
2173	C2	3999	A1		
2180	A2	5200	C1		
2181	A2	5201	B1		
2182	A2	5202	C1		
2183	A2	5203	E1		
2184	B2	5204	E1		
2185	B2	5205	E1		
3004	E2	6000	D2		
3005	E1	6001	D2		
3006	E1	6002	D2		
3007	E2	6003	E2		
3008	E2	6004	E2		
3009	E2	6005	E2		
3010	D1	6006	D2		

Platform Supply 42”: Aux Supply

0P01 G10
1M03 G3
1M10 H13
1M18 H14
1M46 H15
1M63 G10
1P00 G4
1P01 G4
1P02 B1
1P03 A3
1P05 H7
1P06 A11
1P07 B11
1P10 H12
1P16 C1
1P17 C1
1P22 A1
1P30 E13
2P01 F15
2P02 H10
2P03 D7
2P04 F5
2P05 G7
2P06 D9
2P07 B4
2P08 B4
2P09 B2
2P10 B2
2P11 G6
2P12 F12
2P13 E15
2P14 B5
2P16 B4
2P17 B3
2P18 B6
2P19 B6
2P20 B8
2P21 A15
2P22 A14
2P23 F14
2P24 F15
2P25 B11
2P26 A13
2P27 B11
2P28 B12
2P29 B11
2P30 B12
2P31 D13
2P32 E2
2P33 H6
2P34 C15
2P35 A11
2P36 D1
2P37 B14
2P38 E10
2P39 A12
2P40 F12
2P42 C11
2P43 C11
2P45 F3
2P47 C11
2P48 E15
2P49 C12
2P50 D14
2P52 B5
2P53 A12
2P54 E2
2P55 D14
2P56 F12
2P57 F11
2P64 B11
2P80 E10
3P00 B12
3P01 B12
3P02 B12
3P03 B12
3P04 C6
3P05 D13
3P06 H10
3P07 D5
3P08 C7
3P09 E15
3P10 E15
3P11 A13
3P12 G12
3P13 C5
3P14 F2
3P15 C2
3P16 D7
3P17 A15
3P18 A14
3P19 A14
3P20 A14
3P21 A13
3P22 B14
3P23 C14
3P24 C14
3P25 F6
3P26 C14
3P27 D7
3P28 B5
3P29 B7
3P30 D2
3P31 D1
3P32 D3
3P33 E7
3P34 D3
3P35 E1
3P36 A12
3P37 E1
3P38 D3
3P39 F3
3P40 F5
3P41 D2
3P42 C4
3P43 D4
3P44 D3
3P45 D2
3P46 D3
3P47 G15
3P48 C7
3P49 E12
3P50 C7
3P51 F13
3P52 F14
3P53 F14
3P54 A13
3P55 F14
3P56 H2
3P57 E13
3P58 E14
3P59 F13
3P60 C7
3P61 E10
3P62 F10
3P63 F11
3P64 G11
3P65 F11
3P66 G11
3P67 F12
3P68 F7
3P69 F6
3P70 C13
3P71 C14
3P72 C14
3P73 F6
3P74 F6
3P75 F8
3P76 B12
3P77 G7
3P78 G5
3P79 D10
3P80 D10
3P81 D10
3P82 E10
3P83 C10
3P84 D11
3P85 D11
3P86 E11
3P87 E11
3P88 C11
3P89 D11
3P90 E11
3P91 E11
3P92 H6
3P93 B13
3P94 B14
3P95 D2
3P96 A12
3P97 A13
3P98 A12
3P99 A12
3S01 A10
3S02 A10
3S03 A10
3S04 A10
5P00 A9
5P01 B9
5P03 F8
5P04 B8
5P05 C8
5P06 A5
5P07 C7
5P08 C8
5P09 D15
5P10 A10
5P11 B10
5P12 B10
5P13 C10
5P14 C15
5P16 D15
5P18 B15
5P19 B15
5P20 A15
5P21 B11
5P22 B11
5P23 C11
5P24 C11
5P25 B6
5P26 B7
5P27 B6
5P28 B7
6P01 B7
6P02 B6
6P03 C15
6P04 A11
6P05 B2
6P06 A2
6P07 B3
6P09 C7
6P10 A11
6P11 B11
6P12 C11
6P13 B11
6P14 A10
6P15 F6
6P22 C15
6P23 A13
6P27 F7
6P28 F6
6P31 G6
6P34 C2
6P47 C8
6P50 F14
6P51 F14
6P52 C14
6P53 G15
6P80 E10
6P81 E10
6P82 C10
6P83 D10
6P84 D10
6P85 E10
7P02 C7
7P03 A12
7P04 A14
7P06 C4
7P07 D3
7P09 F12
7P10 F4
7P11 F9
7P12 C5
7P14 F13
7P15 F13
7P16 F10
7P17 D13
7P18 C14
7P19 E15
7P20 A13
7P21 A12
7P22 B13
7P23 B15
7P24 B14
7P26 F6
7P27 D5
7P30 E2
7P31 E3
7P38 D2
7P80 D11
7P81 D11
7P82 C12
9P57 C12
9P60 A11
9P61 B15
9P63 A3
9P64 B3
9P65 C15
9P67 H11
9P68 H11
9P72 C15
9P73 D15
9P80 H13
9P81 H13
FP00 A1
FP01 B2
FP02 B1
FP03 C1
FP04 B3
FP05 B4
FP06 H3
FP08 D15
FP09 C15
FP10 H2
FP11 H3
FP12 C2
FP13 H11
FP16 H13
FP17 H13
FP18 H15
FP19 H15
FP20 H15
FP21 H15
FP22 H15
FP23 C3
FP24 B2
FP25 H2
FP26 A4
FP27 H15
FP29 B1
FP30 H15
FP31 H15
FP32 H15
FP35 H2
FP37 C13
FP38 H11
FP79 E12
IP01 A3
IP02 H13
IP03 F7
IP04 B12
IP05 A14
IP06 A14
IP07 D1
IP08 C3
IP09 C3
IP0A C7
IP0B D2
IP0C C11
IP0D C13
IP0E C13
IP0F C14
IP10 A5
IP11 C7
IP12 D7
IP13 C5
IP14 E7
IP15 C7
IP16 B5
IP17 B7
IP18 B7
IP19 C7
IP1A D2
IP1B F13
IP1C A13
IP1D E2
IP1E D3
IP1F D3
IP20 D7
IP21 A10
IP22 A10
IP23 E13
IP24 E13
IP25 E14
IP26 F14
IP27 F8
IP28 C9
IP29 F8
IP2A E3
IP30 A14
IP31 B11
IP32 C14
IP33 B14
IP35 F7
IP36 F6
IP37 F5
IP38 F5
IP40 F5
IP41 G5
IP42 A2
IP44 E2
IP45 F3
IP46 F9
IP47 C9
IP48 B8
IP49 A10
IP50 B10
IP51 B10
IP52 B11
IP53 A11
IP54 D11
IP55 D11
IP56 C11
IP57 D10
IP58 B7
IP59 E10
IP5A B14
IP5B A12
IP5C A13
IP5D E7
IP5E G3
IP5F H3
IP60 E11
IP61 C10
IP62 C10
IP63 C10
IP64 C11
IP65 B6
IP66 E10
IP67 F10
IP68 F10
IP69 F11
IP6A G5
IP6B E15
IP6C B13
IP70 F12
IP71 F10
IP72 F12
IP73 F15
IP74 E14
IP75 D10
IP76 E10
IP77 D11
IP78 D11
IP79 B6
IP80 D10
IP81 G10
IP82 C14
IP83 A10
IP84 B10
IP85 B11
IP86 B11
IP87 C11
IP88 C11
IP89 A11
IP90 B13
IP91 B13
IP92 C8
IP93 F13
IP94 C4
IP95 A14
IP96 E14
IP97 E13
IP98 E13
IP99 F14


AP1
PLATFORM SUPPLY: AUXILIARY SUPPLY
AP1
HOT GROUND
COLD GROUND
DC INPUT
1P22
B2P-VA-BF-BK
AC INPUT
1P02
B2P-VA-BF
1P16
B2P-VA-BF-BK
1P03
T1A6-250V
-DC-F
+DC-F
+400V-F
5P00
BS25405-00
5P01
BS25405-00
+25VLP
+12-15V
GND-L
-12-15V
+12V_NF
+12VAL
+12V
STANDBY
ON-OFF
DC-PROT
V-CLAMP
+5V-SW
+AUX
AL-OFF
+5V2
+5V2-NF
+8V6
7P27
TEA1506AT
SPMS CTRL
VCC
CTRL
NC
DEM
ISENSE
DRIVER
DRAIN
HVS
GND
7P02
STP6NK60Z
7P12
TCET1102(G)
7P11
TCET1102(G)
7P06
BC817-25W
7P26
BC817-25W
7P10
BC847BW
7P30
BC847BW
7P31
BC857BW
7P38
BC847BW
7P07
BC857BW
7P14
STP16NF06FP
7P18
BSP030
7P20
BSP030
7P23
BSP030
7P21
BC847BW
7P22
BC857BW
7P24
BC857BW
7P03
TS2431
7P16
TS2431
7P81
TS2431
7P82
BC857BW
7P80
BC847BW
7P04
BC847BW
7P17
BC847BW
7P19
BC847BW
7P15
BC847BW
7P09
BC847BW
1P30
T1A 250V
POWER-OK-PLATFORM
1M03
B10P-PH-K-S
5V (0V)
DIM-CONTROL
POWER-OK-PLATFORM
BOOST
POWER-GOOD
6P10
6P11
1P01
HEATSINK
6P12
6P13
1P00
HEATSINK
7S02
7P02
1P05
HEATSINK
1M63
B2P-PH-K
GND screw
0P01
1P10
B10B-EH-A
0V (0V)
5V (0V)
3V3 (0V)
5V1 (5V1)
0V5 (4V)
1M10
B6B-PH-K
1M18
B4B-PH-K
1M46
B11B-PH-K
GND-SSP
GNDHA
GND-S
GND-AL
3104 313 6108.4
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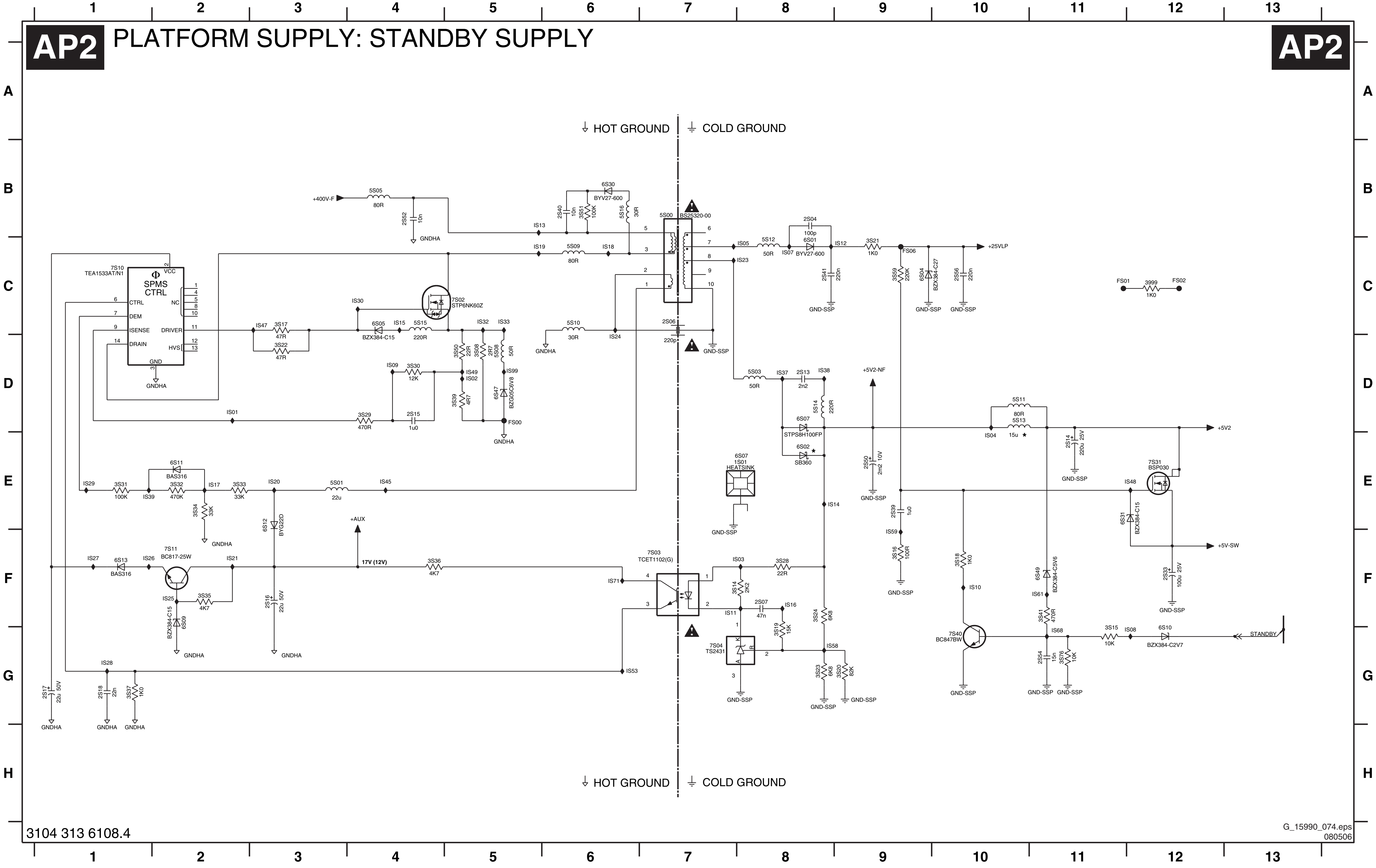
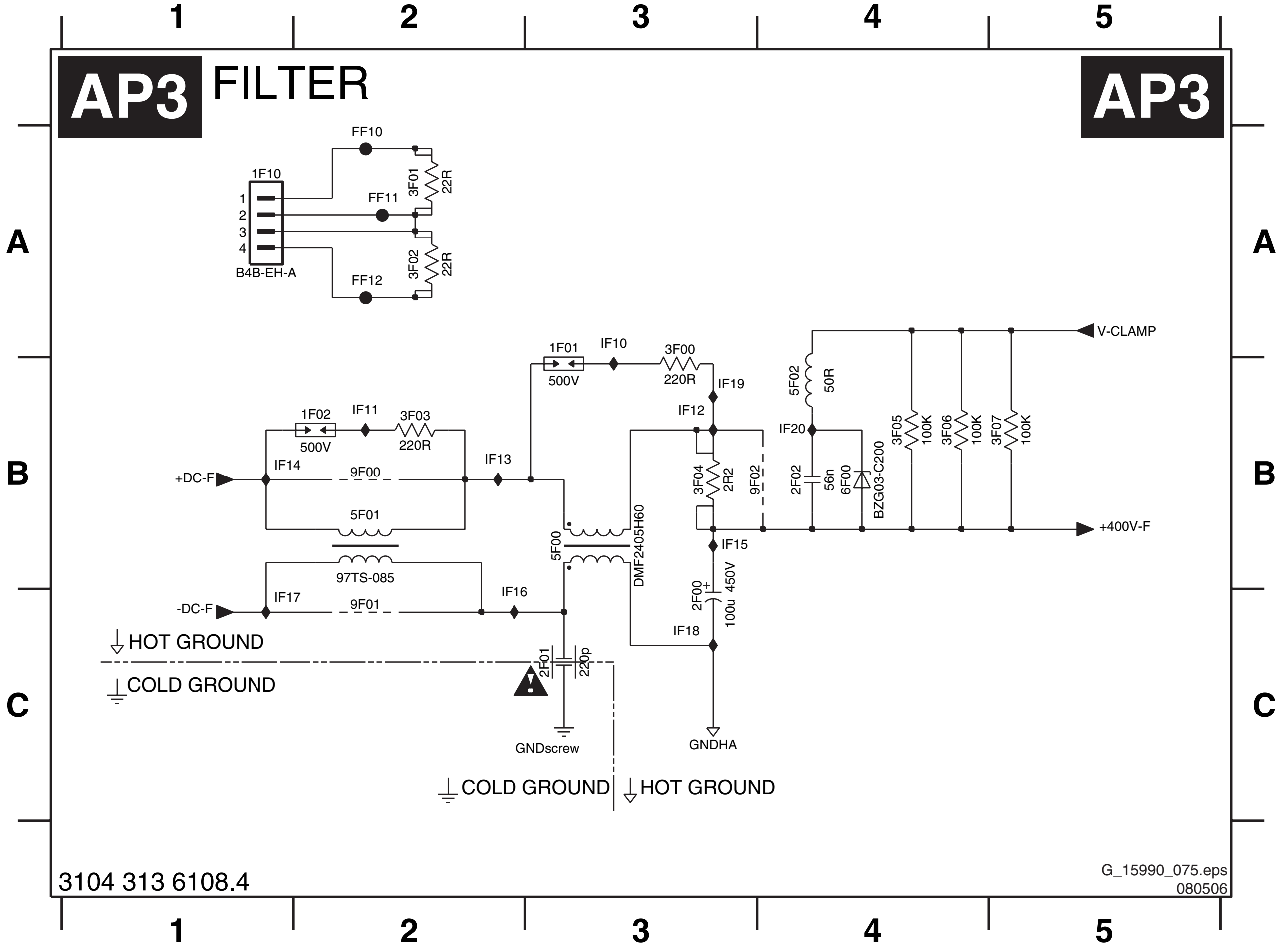
080506

Platform Supply 42”: Stby Supply


AP2
PLATFORM SUPPLY: STANDBY SUPPLY
AP2
HOT GROUND
COLD GROUND
+400V-F
5S05 80R
2S52 10n
GNDHA
7S10 TEA1533AT/N1
SPMS CTRL
VCC
CTRL
DEM
ISENSE
DRAIN
NC
DRIVER
HVS
GND
7S02 STP6NK60Z
6S30 BYV27-600
2S40 10n
3S51 100K
5S16 30R
5S00 BS25320-00
IS13
IS19
5S09 80R
IS18
5S10 30R
IS24
2S06 220p
GND-SSP
IS30
6S05 BZX384-C15
IS15
5S15 220R
IS32
IS33
IS47
3S17 47R
3S22 47R
3S50 22R
3S08 2R7
5S08 50R
IS09
3S30 12K
IS49
IS02
IS99
6S47 BZX585C6V8
3S39 4R7
FS00
IS01
3S29 470R
2S15 1u0
IS29
3S31 100K
IS39
6S11 BAS316
3S32 470K
IS17
3S33 33K
3S34 33K
IS20
5S01 22u
IS45
6S12 BYG22D
+AUX
17V (12V)
3S36 4K7
IS27
6S13 BAS316
IS26
7S11 BC817-25W
IS21
IS25
3S35 4K7
BZX384-C15 6S09
2S16 22u 50V
IS28
2S17 22u 50V
2S18 22n
3S37 1K0
IS53
IS71
7S03 TCET1102(G)
IS03
3S14 2K2
3S28 22R
2S07 47n
IS16
IS11
3S19 15K
7S04 TS2431
IS58
3S23 6K8
3S20 82K
3S24 6K8
IS14
IS05
5S12 50R
IS07
2S04 100p
6S01 BYV27-600
IS12
3S21 1K0
FS06
+25VLP
2S41 220n
3S59 220K
6S04 BZX384-C27
2S56 220n
IS23
FS01
3999 1K0
FS02
5S03 50R
IS37
2S13 2n2
IS38
5S14 220R
+5V2-NF
6S07 STPS8H100FP
6S02 SB360
2S50 2m2 10V
6S07 1S01 HEATSINK
2S39 1u0
IS59
3S16 100R
IS04
5S11 80R
5S13 15u
2S14 220u 25V
+5V2
7S31 BSP030
IS48
6S31 BZX384-C15
+5V-SW
2S33 100u 25V
3S18 1K0
IS10
6S49 BZX384-C5V6
IS61
3S41 470R
7S40 BC847BW
IS68
3S15 10K
IS08
6S10 BZX384-C2V7
STANDBY
2S54 15n
3S76 10K
3104 313 6108.4
G_15990_074.eps 080506

1S01	E8
2S04	B8
2S06	C7
2S07	F8
2S13	D8
2S14	E11
2S15	D4
2S16	F3
2S17	G1
2S18	G1
2S33	F12
2S39	E9
2S40	B6
2S41	C8
2S50	E9
2S52	B4
2S54	G11
2S56	C10
3999	C12
3S08	D5
3S14	F7
3S15	F11
3S16	F9
3S17	C3
3S18	F10
3S19	G8
3S20	G9
3S21	C9
3S22	D3
3S23	G8
3S24	F8
3S28	F8
3S29	D4
3S30	D4
3S31	E1
3S32	E2
3S33	E2
3S34	E2
3S35	F2
3S36	F4
3S37	G1
3S39	D5
3S41	F11
3S50	D5
3S51	B6
3S59	C9
3S76	G11
5S00	B7
5S01	E3
5S03	D8
5S05	B4
5S08	D5
5S09	C6
5S10	C6
5S11	D10
5S12	C8
5S13	D10
5S14	D8
5S15	C4
5S16	B6
6S01	C8
6S02	E8
6S04	C9
6S05	C4
6S07	D8
6S09	F2
6S10	F12
6S11	E2
6S12	E3
6S13	F1
6S30	B6
6S31	E11
6S47	D5
6S49	F11
7S02	C5
7S03	F7
7S04	G7
7S10	C1
7S11	F2
7S31	E12
7S40	G10
FS00	D5
FS01	C11
FS02	C12
FS06	C9
IS01	D2
IS02	D5
IS03	F8
IS04	E10
IS05	C8
IS07	C8
IS08	G12
IS09	D4
IS10	F10
IS11	F7
IS12	C9
IS13	B5
IS14	E8
IS15	C4
IS16	F8
IS17	E2
IS18	C6
IS19	C5
IS20	E3
IS21	F2
IS23	C8
IS24	D6
IS25	F2
IS26	F1
IS27	F1
IS28	G1
IS29	E1
IS30	C4
IS32	C5
IS33	C5
IS37	D8
IS38	D8
IS39	E1
IS45	E4
IS47	C3
IS48	E12
IS49	D5
IS53	G6
IS58	G8
IS59	F9
IS61	F11
IS68	G11
IS71	F6
IS99	D5

Platform Supply 42”: Filter


1
2
3
4
5
A
B
C
AP3
FILTER
AP3
FF10
1F10
1
2
3
4
B4B-EH-A
FF11
3F01
22R
3F02
22R
FF12
1F01
500V
IF10
3F00
220R
IF19
IF12
1F02
500V
IF11
3F03
220R
IF13
+DC-F
IF14
9F00
5F01
97TS-085
-DC-F
IF17
9F01
IF16
5F00
DMF2405H60
3F04
2R2
9F02
IF15
2F00
100u 450V
IF18
5F02
50R
IF20
2F02
56n
6F00
BZG03-C200
3F05
100K
3F06
100K
3F07
100K
V-CLAMP
+400V-F
HOT GROUND
COLD GROUND
2F01
220p
GNDscrew
GNDHA
COLD GROUND
HOT GROUND
3104 313 6108.4
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080506

1F01	A3
1F02	B2
1F10	A1
2F00	C3
2F01	C3
2F02	B4
3F00	A3
3F01	A2
3F02	A2
3F03	B2
3F04	B3
3F05	B4
3F06	B4
3F07	B5
5F00	B3
5F01	B2
5F02	B4
6F00	B4
9F00	B2
9F01	C2
9F02	B4
FF10	A2
FF11	A2
FF12	A2
IF10	A3
IF11	B2
IF12	B3
IF13	B2
IF14	B1
IF15	B3
IF16	C2
IF17	C1
IF18	C3
IF19	B3
IF20	B4

Personal Notes:

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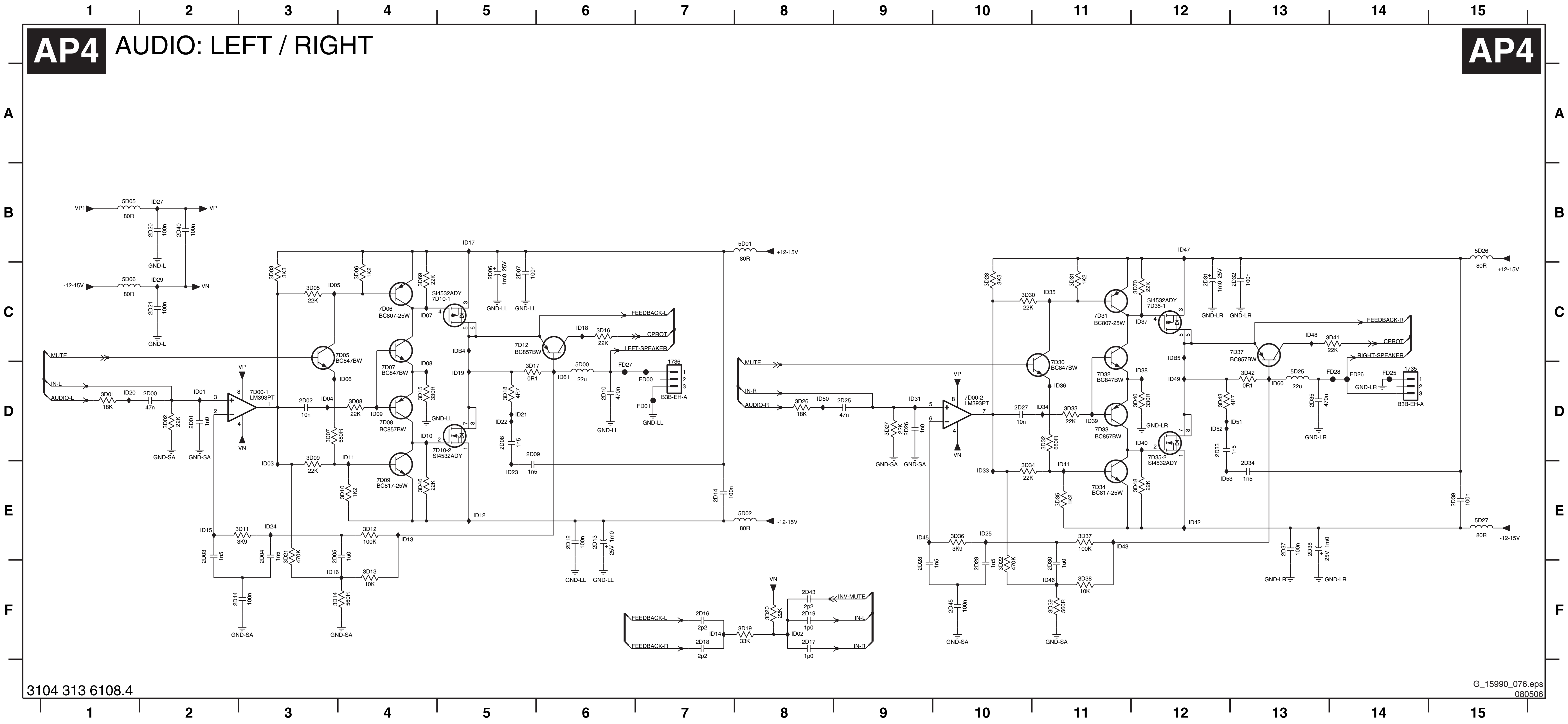
131004

Platform Supply 42”: Audio Left/Right

1735	D14
1736	D7
2D00	D2
2D01	D2
2D02	D3
2D03	E2
2D04	E3
2D05	E3
2D06	C5
2D07	C5
2D08	D5
2D09	D5
2D10	D6
2D12	E6
2D13	E6
2D14	E7
2D16	F7
2D17	F8
2D18	F7
2D19	F8
2D20	B2
2D21	C2
2D25	D9
2D26	D9
2D27	D10
2D28	F9
2D29	F10
2D30	F11
2D31	C12
2D32	C13
2D33	D12
2D34	D13
2D35	D13
2D37	E13
2D38	E13
2D39	E15
2D40	B2
2D43	F8
2D44	F2
2D45	F10
3D01	D1
3D02	D2
3D03	C3
3D05	C3
3D06	C4
3D07	D3
3D08	D4
3D09	D3
3D10	E4
3D11	E3
3D12	E4
3D13	F4
3D14	F3
3D15	D4
3D16	C6
3D17	D5
3D18	D5
3D19	F8
3D20	F8
3D21	E3
3D22	F10
3D26	D8
3D27	D9
3D28	C10
3D30	C10
3D31	C11
3D32	D11
3D33	D11
3D34	E10
3D35	E11
3D36	E10
3D37	E11
3D38	F11
3D39	F11
3D40	D12
3D41	C14
3D42	D13
3D43	D12
3D46	E4
3D48	E12
3D69	C4
3D70	C12
5D00	D6
5D01	B8
5D02	E8
5D05	B1
5D06	C1
5D25	D13
5D26	B15
5D27	E15
7D00-1	D3
7D00-2	D10
7D05	C3
7D06	C4
7D07	D4
7D08	D4
7D09	E4
7D10-1	C4
7D10-2	D4
7D12	C5
7D30	D11
7D31	C11
7D32	D11
7D33	D11
7D34	E11
7D35-1	C12
7D35-2	D12
7D37	C12
FD00	D7
FD01	D7
FD25	D14
FD26	D14
FD27	D6
FD28	D14
ID01	D2
ID02	F8
ID03	E3
ID04	D3
ID05	C3
ID06	D4
ID07	C4
ID08	D4
ID09	D4
ID10	D4
ID11	D4
ID12	E5
ID13	E4
ID14	F7
ID15	E2
ID16	F3
ID17	B5
ID18	C6
ID19	D5
ID20	D1
ID21	D5
ID22	D5
ID23	E5
ID24	E3
ID25	E10
ID27	B2
ID29	C2
ID31	D9
ID33	E10
ID34	D11
ID35	C11
ID36	D11
ID37	C12
ID38	D12
ID39	D11
ID40	D12
ID41	E11
ID42	E12
ID43	E11
ID45	E9
ID46	F11
ID47	B12
ID48	C13
ID49	D12
ID50	D8
ID51	D13
ID52	D12
ID53	E12
ID60	D13
ID61	D6
IDB4	C5
IDB5	C12


AP4
AUDIO: LEFT / RIGHT
AP4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
A B C D E F
VP1
5D05
80R
ID27
VP
2D20
100n
2D40
100n
GND-L
-12-15V
5D06
80R
ID29
VN
2D21
100n
GND-L
MUTE
IN-L
AUDIO-L
3D01
18K
ID20
2D00
47n
ID01
3D02
22K
2D01
1n0
GND-SA
GND-SA
VP
VN
7D00-1
LM393PT
2D02
10n
ID04
3D03
3K3
3D05
22K
ID05
3D06
1K2
7D05
BC847BW
ID06
3D07
680R
3D08
22K
ID09
7D06
BC807-25W
7D07
BC847BW
7D08
BC857BW
7D09
BC817-25W
ID07
ID08
ID10
ID11
ID03
3D09
22K
3D10
1K2
3D69
22K
3D15
330R
3D46
22K
SI4532ADY
7D10-1
7D10-2
SI4532ADY
GND-LL
ID17
2D06
1m0 25V
2D07
100n
GND-LL
GND-LL
IDB4
ID19
ID12
7D12
BC857BW
ID18
3D16
22K
FEEDBACK-L
CPROT
LEFT-SPEAKER
3D17
0R1
ID61
5D00
22u
FD27
FD00
FD01
1736
B3B-EH-A
2D10
470n
GND-LL
GND-LL
3D18
4R7
ID21
ID22
2D08
1n5
2D09
1n5
ID23
5D01
80R
+12-15V
2D14
100n
5D02
80R
-12-15V
ID15
3D11
3K9
ID24
2D03
1n5
2D04
1n5
3D21
470K
2D05
1u0
3D12
100K
ID13
ID16
3D13
10K
2D44
100n
3D14
560R
GND-SA
GND-SA
2D12
100n
2D13
25V 1m0
GND-LL
GND-LL
FEEDBACK-L
2D16
2p2
ID14
3D19
33K
FEEDBACK-R
2D18
2p2
VN
3D20
22K
2D43
2p2
INV-MUTE
2D19
1p0
IN-L
ID02
2D17
1p0
IN-R
MUTE
IN-R
AUDIO-R
3D26
18K
ID50
2D25
47n
3D27
22K
2D26
1n0
GND-SA
GND-SA
ID31
VP
VN
7D00-2
LM393PT
2D27
10n
ID34
3D28
3K3
3D30
22K
ID35
3D31
1K2
7D30
BC847BW
ID36
3D32
680R
3D33
22K
ID39
7D31
BC807-25W
7D32
BC847BW
7D33
BC857BW
7D34
BC817-25W
ID37
ID38
ID40
ID41
ID33
3D34
22K
3D35
1K2
3D70
22K
3D40
330R
3D48
22K
SI4532ADY
7D35-1
7D35-2
SI4532ADY
GND-LR
ID47
2D31
1m0 25V
2D32
100n
GND-LR
GND-LR
IDB5
ID49
ID42
7D37
BC857BW
ID48
3D41
22K
FEEDBACK-R
CPROT
RIGHT-SPEAKER
3D42
0R1
ID60
5D25
22u
FD28
FD26
FD25
1735
B3B-EH-A
GND-LR
2D35
470n
GND-LR
3D43
4R7
ID51
ID52
2D33
1n5
2D34
1n5
ID53
5D26
80R
+12-15V
2D39
100n
5D27
80R
-12-15V
ID45
3D36
3K9
ID25
2D28
1n5
2D29
1n5
3D22
470K
2D30
1u0
3D37
100K
ID43
ID46
3D38
10K
2D45
100n
3D39
560R
GND-SA
GND-SA
2D37
100n
2D38
25V 1m0
GND-LR
GND-LR

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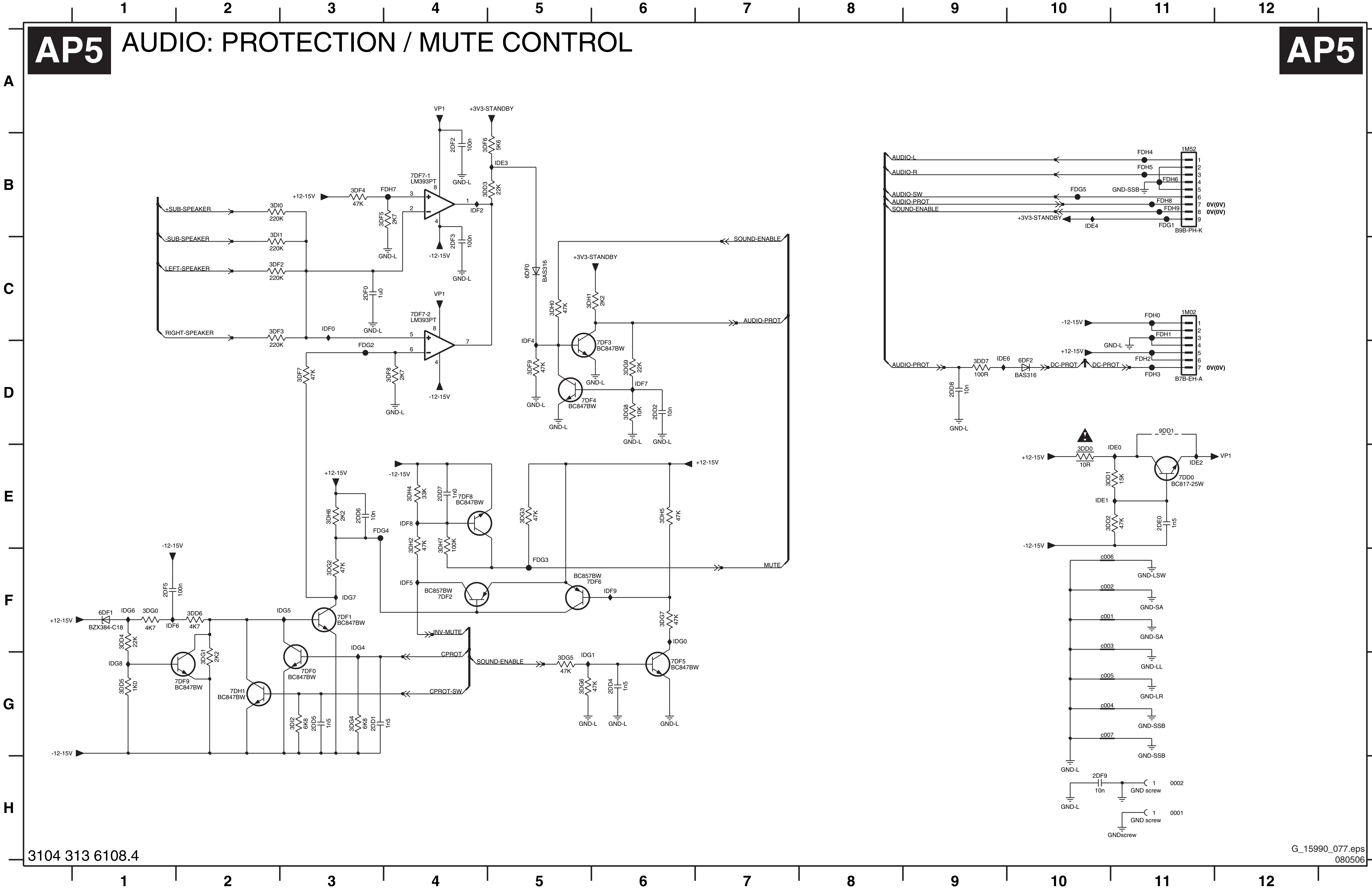
Platform Supply 42”: Audio Prot / Mute


AP5
AUDIO: PROTECTION / MUTE CONTROL
AP5
1 2 3 4 5 6 7 8 9 10 11 12
A B C D E F G H
VP1
+3V3-STANDBY
2DF2 100n
3DF6 5K6
IDE3
GND-L
7DF7-1 LM393PT
3DD3 22K
+12-15V
3DF4 47K
FDH7
IDF2
3DF5 2K7
2DF3 100n
-12-15V
+SUB-SPEAKER
-SUB-SPEAKER
LEFT-SPEAKER
RIGHT-SPEAKER
3DI0 220K
3DI1 220K
3DF2 220K
3DF3 220K
IDF0
2DF0 1u0
7DF7-2 LM393PT
FDG2
3DF7 47K
3DF8 2K7
6DF0 BAS316
SOUND-ENABLE
+3V3-STANDBY
3DH0 47K
3DH1 2K2
AUDIO-PROT
IDF4
7DF3 BC847BW
3DF9 47K
7DF4 BC847BW
3DG9 22K
IDF7
3DG8 10K
2DD2 10n
AUDIO-L
AUDIO-R
AUDIO-SW
AUDIO-PROT
SOUND-ENABLE
+3V3-STANDBY
FDH4
FDH5
FDH6
GND-SSB
FDG5
FDH8
FDH9
FDG1
IDE4
1M52
B9B-PH-K
0V(0V)
0V(0V)
-12-15V
GND-L
+12-15V
FDH0
FDH1
FDH2
FDH3
1M02
B7B-EH-A
3DD7 100R
IDE6
6DF2 BAS316
DC-PROT
DC-PROT
2DD8 10n
0V(0V)
9DD1
3DD0 10R
IDE0
7DD0 BC817-25W
IDE2
VP1
3DD1 15K
IDE1
3DD2 47K
2DE0 1n5
-12-15V
c006 GND-LSW
c002 GND-SA
c001 GND-SA
c003 GND-LL
c005 GND-LR
c004 GND-SSB
c007 GND-SSB
2DF9 10n
GND screw 0002
GND screw 0001
GNDscrew
-12-15V
3DH4 33K
2DD7 1n0
7DF8 BC847BW
IDF8
3DH2 47K
3DH7 100K
3DG3 47K
FDG3
3DH5 47K
+12-15V
MUTE
3DH6 2K2
2DD6 10n
FDG4
3DG2 47K
IDG7
IDF5
BC857BW 7DF2
BC857BW 7DF6
IDF9
3DG7 47K
IDG0
2DF5 100n
6DF1 BZX384-C18
IDG6
3DG0 4K7
IDF6
3DD6 4K7
IDG5
7DF1 BC847BW
3DD4 22K
IDG8
7DF9 BC847BW
3DG1 2K2
3DD5 1K0
7DH1 BC847BW
7DF0 BC847BW
IDG4
INV-MUTE
CPROT
CPROT-SW
SOUND-ENABLE
3DG5 47K
IDG1
7DF5 BC847BW
3DI2 6K8
2DD5 1n5
3DG4 6K8
2DD1 1n5
3DG6 47K
2DD4 1n5
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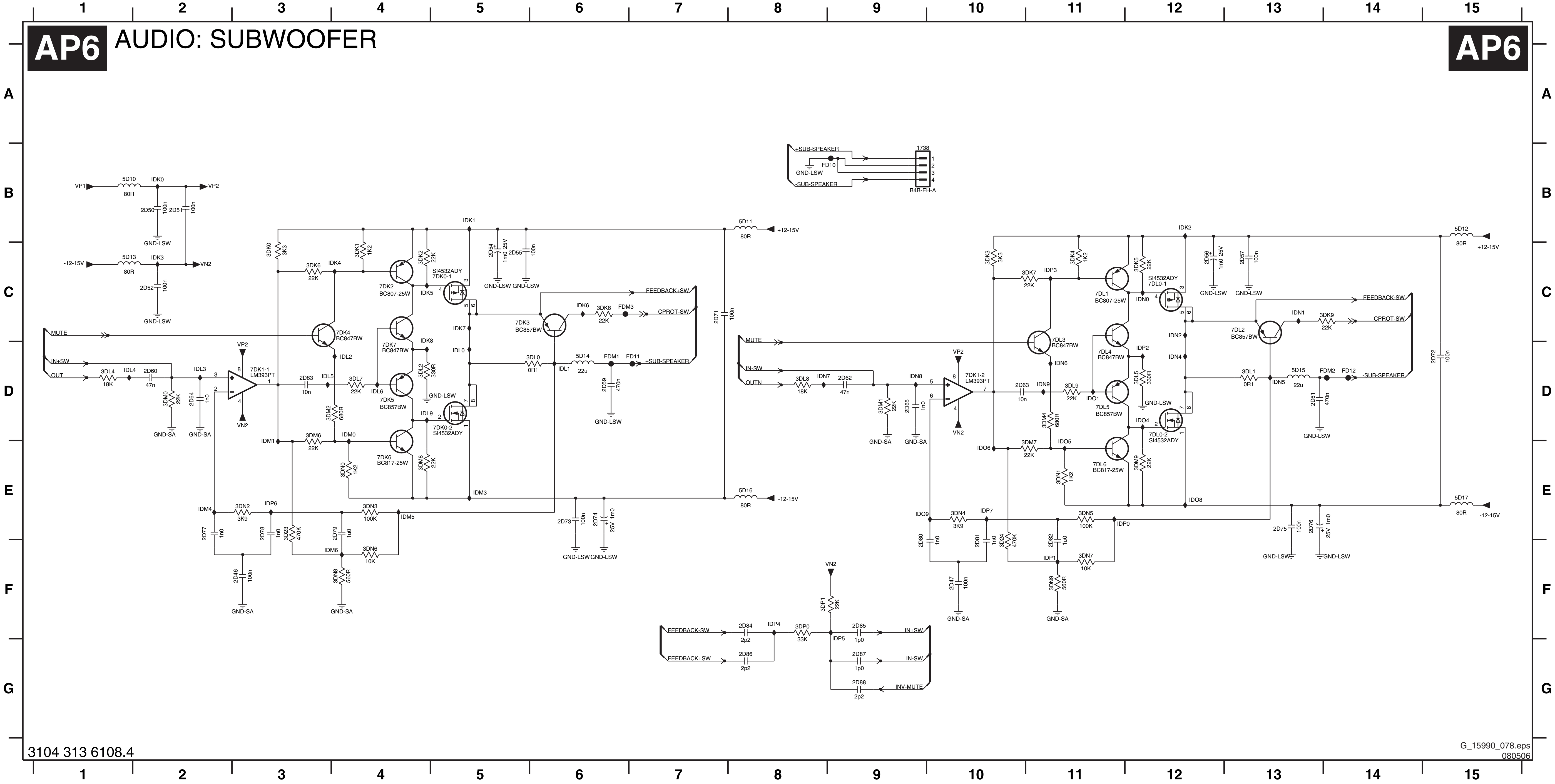
0001	H11
0002	H11
1M02	C11
1M52	B11
2DD1	G3
2DD2	D6
2DD4	G6
2DD5	G3
2DD6	E3
2DD7	E4
2DD8	D9
2DE0	E11
2DF0	C3
2DF2	B4
2DF3	C4
2DF5	F1
2DF9	H10
3DD0	E10
3DD1	E10
3DD2	E10
3DD3	B4
3DD4	F1
3DD5	G1
3DD6	F2
3DD7	D9
3DF2	C2
3DF3	C2
3DF4	B3
3DF5	B3
3DF6	B4
3DF7	D3
3DF8	D4
3DF9	D5
3DG0	F1
3DG1	G2
3DG2	F3
3DG3	E5
3DG4	G3
3DG5	G5
3DG6	G5
3DG7	F6
3DG8	D6
3DG9	D6
3DH0	C5
3DH1	C5
3DH2	E4
3DH4	E4
3DH5	E6
3DH6	E3
3DH7	E4
3DI0	B2
3DI1	C2
3DI2	G3
6DF0	C5
6DF1	F1
6DF2	D10
7DD0	E11
7DF0	G3
7DF1	F3
7DF2	F4
7DF3	D6
7DF4	D6
7DF5	G6
7DF6	F6
7DF7-1	B4
7DF7-2	C4
7DF8	E4
7DF9	G1
7DH1	G2
9DD1	D11
FDG1	B11
FDG2	D3
FDG3	F5
FDG4	E3
FDG5	B10
FDH0	C11
FDH1	C11
FDH2	D11
FDH3	D11
FDH4	B11
FDH5	B11
FDH6	B11
FDH7	B4
FDH8	B11
FDH9	B11
IDE0	E11
IDE1	E10
IDE2	E11
IDE3	B5
IDE4	B10
IDE6	D10
IDF0	C3
IDF2	B4
IDF4	D5
IDF5	F4
IDF6	F1
IDF7	D6
IDF8	E4
IDF9	F6
IDG0	F6
IDG1	G5
IDG4	F3
IDG5	F3
IDG6	F1
IDG7	F3
IDG8	G1
c001	F10
c002	F10
c003	F10
c004	G10
c005	G10
c006	F10
c007	G10

Platform Supply 42”: Audio Subwoofer

1738	B9
2D46	F3
2D47	F10
2D50	B2
2D51	B2
2D52	C2
2D54	C5
2D55	C5
2D56	C12
2D57	C13
2D59	D6
2D60	D2
2D61	D13
2D62	D9
2D63	D10
2D64	D2
2D65	D9
2D71	C7
2D72	D15
2D73	E6
2D74	E6
2D75	E13
2D76	E13
2D77	E2
2D78	E3
2D79	E4
2D80	F9
2D81	F10
2D82	F11
2D83	D3
2D84	F8
2D85	F9
2D86	G8
2D87	G9
2D88	G9
3D23	E3
3D24	F10
3DK0	C3
3DK1	C4
3DK2	C4
3DK3	C10
3DK4	C11
3DK5	C12
3DK6	C3
3DK7	C11
3DK8	C6
3DK9	C14
3DL0	D6
3DL1	D13
3DL2	D4
3DL4	D1
3DL5	D12
3DL7	D4
3DL8	D8
3DL9	D11
3DM0	D2
3DM1	D9
3DM2	D3
3DM4	D11
3DM6	D3
3DM7	E11
3DM8	E4
3DM9	E12
3DN0	E4
3DN1	E11
3DN2	E3
3DN3	E4
3DN4	E10
3DN5	E11
3DN6	F4
3DN7	F11
3DN8	F4
3DN9	F11
3DP0	F8
3DP1	F8
5D10	B1
5D11	B8
5D12	B15
5D13	C1
5D14	D6
5D15	D13
5D16	E8
5D17	E15
7DK0-1	C5
7DK0-2	D5
7DK1-1	D3
7DK1-2	D10
7DK2	C4
7DK3	C5
7DK4	C4
7DK5	D4
7DK6	E4
7DK7	D4
7DL0-1	C12
7DL0-2	D12
7DL1	C11
7DL2	C13
7DL3	D11
7DL4	D11
7DL5	D11
7DL6	E11
FD10	B9
FD11	D7
FD12	D14
FDM1	D6
FDM2	D14
FDM3	C6
IDK0	B2
IDK1	B5
IDK2	B12
IDK3	C2
IDK4	C4
IDK5	C4
IDK6	C6
IDK7	C5
IDK8	C4
IDL0	D5
IDL1	D6
IDL2	D4
IDL3	D2
IDL4	D1
IDL5	D3
IDL6	D4
IDL9	D4
IDM0	D4
IDM1	E3
IDM3	E5
IDM4	E2
IDM5	E4
IDM6	F3
IDN0	C12
IDN1	C13
IDN2	C12
IDN4	D12
IDN5	D13
IDN6	D11
IDN7	D8
IDN8	D9
IDN9	D11
IDO1	D11
IDO4	D12
IDO5	E11
IDO6	E10
IDO8	E12
IDO9	E9
IDP0	E11
IDP1	F11
IDP2	D12
IDP3	C11
IDP4	F8
IDP5	F9
IDP6	E3
IDP7	E10


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
A
B
C
D
E
F
G
AP6
AUDIO: SUBWOOFER
AP6
VP1
5D10
80R
IDK0
VP2
2D50
100n
2D51
100n
GND-LSW
-12-15V
5D13
80R
IDK3
VN2
2D52
100n
GND-LSW
MUTE
IN+SW
OUT
3DL4
18K
IDL4
2D60
47n
IDL3
3DM0
22K
2D64
1n0
GND-SA
GND-SA
VP2
VN2
7DK1-1
LM393PT
3DK0
3K3
3DK6
22K
IDK4
3DK1
1K2
3DK2
22K
IDK1
7DK2
BC807-25W
SI4532ADY
7DK0-1
IDK5
7DK4
BC847BW
IDL2
7DK7
BC847BW
IDK8
3DL2
330R
2D83
10n
IDL5
3DL7
22K
IDL6
7DK5
BC857BW
GND-LSW
IDL9
7DK0-2
SI4532ADY
3DM2
680R
IDM1
3DM6
22K
IDM0
7DK6
BC817-25W
3DM8
22K
3DN0
1K2
IDM3
2D54
1m0 25V
2D55
100n
GND-LSW
GND-LSW
7DK3
BC857BW
IDK6
3DK8
22K
FDM3
IDK7
IDL0
3DL0
0R1
IDL1
5D14
22u
FDM1
FD11
2D59
470n
GND-LSW
FEEDBACK+SW
CPROT-SW
+SUB-SPEAKER
2D71
100n
5D11
80R
+12-15V
5D16
80R
-12-15V
IDM4
3DN2
3K9
IDP6
3DN3
100K
IDM5
2D77
1n0
2D78
1n0
3D23
470K
2D79
1u0
IDM6
3DN6
10K
2D46
100n
GND-SA
3DN8
560R
GND-SA
2D73
100n
2D74
25V 1m0
GND-LSW
GND-LSW
+SUB-SPEAKER
FD10
GND-LSW
-SUB-SPEAKER
1738
B4B-EH-A
FEEDBACK-SW
2D84
2p2
IDP4
3DP0
33K
IDP5
2D85
1p0
IN+SW
FEEDBACK+SW
2D86
2p2
2D87
1p0
IN-SW
2D88
2p2
INV-MUTE
VN2
3DP1
22K
MUTE
IN-SW
OUTN
3DL8
18K
IDN7
2D62
47n
IDN8
3DM1
22K
2D65
1n0
GND-SA
GND-SA
VP2
VN2
7DK1-2
LM393PT
2D63
10n
IDN9
3DL9
22K
IDO1
3DK3
3K3
3DK7
22K
IDP3
3DK4
1K2
3DK5
22K
IDK2
7DL1
BC807-25W
IDN0
SI4532ADY
7DL0-1
2D56
1m0 25V
2D57
100n
GND-LSW
GND-LSW
7DL3
BC847BW
IDN6
7DL4
BC847BW
IDP2
3DL5
330R
7DL5
BC857BW
GND-LSW
IDO4
7DL0-2
SI4532ADY
3DM4
680R
IDO6
3DM7
22K
IDO5
7DL6
BC817-25W
3DM9
22K
3DN1
1K2
IDO8
IDN2
IDN4
7DL2
BC857BW
IDN1
3DK9
22K
FEEDBACK-SW
CPROT-SW
3DL1
0R1
IDN5
5D15
22u
FDM2
FD12
-SUB-SPEAKER
2D61
470n
GND-LSW
2D72
100n
5D12
80R
+12-15V
5D17
80R
-12-15V
IDO9
3DN4
3K9
IDP7
3DN5
100K
IDP0
2D80
1n0
2D81
1n0
3D24
470K
2D82
1u0
IDP1
3DN7
10K
2D47
100n
GND-SA
3DN9
560R
GND-SA
2D75
100n
2D76
25V 1m0
GND-LSW
GND-LSW
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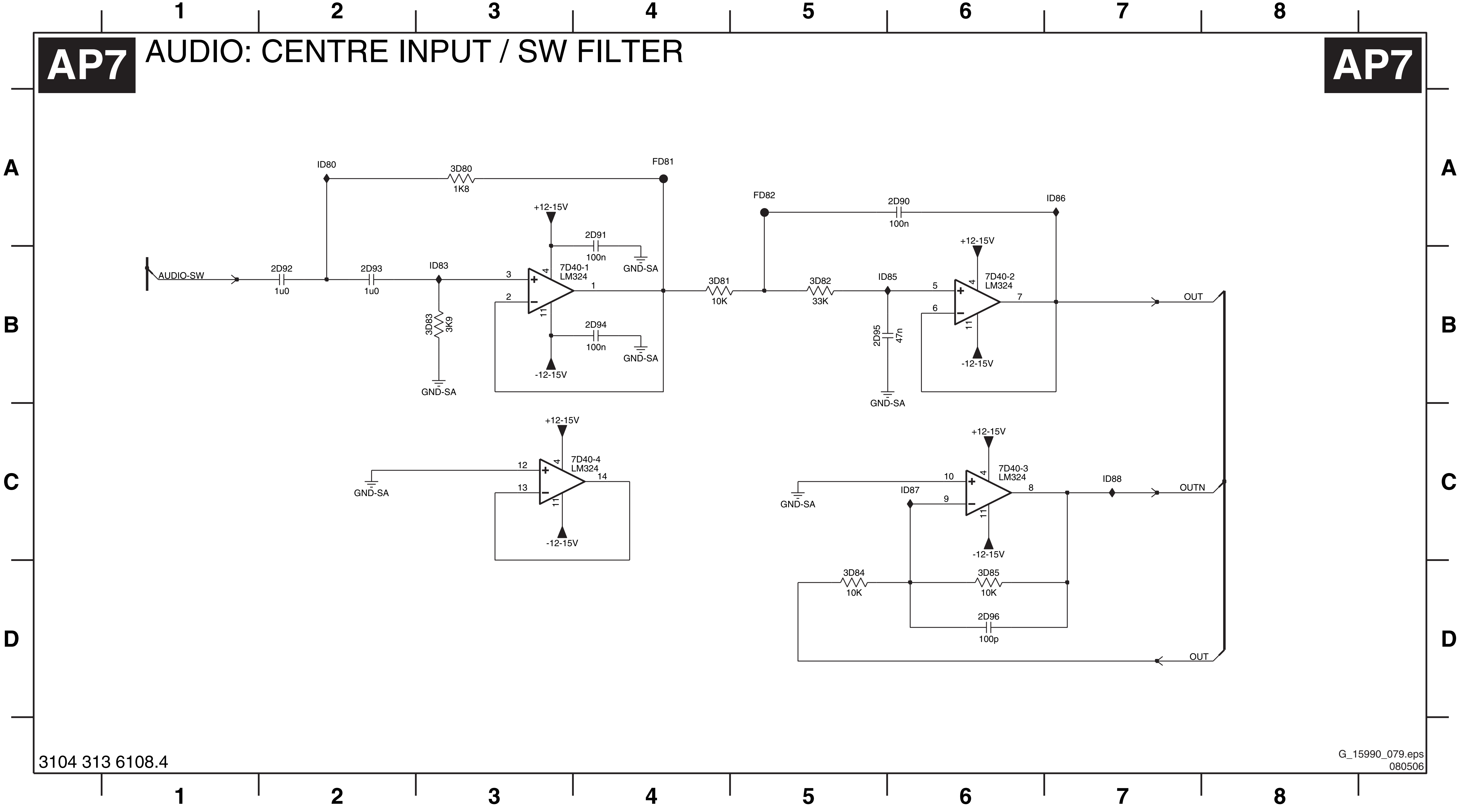
Platform Supply 42”: Audio Centre


AP7
AUDIO: CENTRE INPUT / SW FILTER
AP7
AUDIO-SW
2D92
1u0
ID80
3D80
1K8
FD81
2D93
1u0
ID83
3D83
3K9
GND-SA
+12-15V
2D91
100n
GND-SA
7D40-1
LM324
3
2
1
4
11
2D94
100n
GND-SA
-12-15V
3D81
10K
FD82
2D90
100n
ID86
3D82
33K
ID85
2D95
47n
GND-SA
+12-15V
7D40-2
LM324
5
6
7
4
11
-12-15V
OUT
+12-15V
7D40-4
LM324
12
13
14
4
11
GND-SA
-12-15V
+12-15V
7D40-3
LM324
10
9
8
4
11
GND-SA
ID87
-12-15V
ID88
OUTN
3D84
10K
3D85
10K
2D96
100p
OUT
1
2
3
4
5
6
7
8
A
B
C
D
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2D90	A6
2D91	A4
2D92	B2
2D93	B2
2D94	B4
2D95	B5
2D96	D6
3D80	A3
3D81	B4
3D82	B5
3D83	B3
3D84	D5
3D85	D6
7D40-1	B3
7D40-2	B6
7D40-3	C6
7D40-4	C3
FD81	A4
FD82	A5
ID80	A2
ID83	B3
ID85	B6
ID86	A7
ID87	C6
ID88	C7

Platform Supply 42”: SRP List

Net Name	Diagram
+12-15V	AP1 (4x)
+12-15V	AP4 (4x)
+12-15V	AP5 (12x)
+12-15V	AP6 (4x)
+12-15V	AP7 (8x)
+12V	AP1 (4x)
+12V_NF	AP1 (2x)
+12VAL	AP1 (2x)
+25VLP	AP1 (4x)
+25VLP	AP2 (1x)
+3V3-STANDBY	AP5 (3x)
+400V-F	AP1 (2x)
+400V-F	AP2 (2x)
+400V-F	AP3 (2x)
+5V2	AP1 (6x)
+5V2	AP2 (1x)
+5V2-NF	AP1 (1x)
+5V2-NF	AP2 (1x)
+5V-SW	AP1 (6x)
+5V-SW	AP2 (1x)
+8V6	AP1 (3x)
+AUX	AP1 (2x)
+AUX	AP2 (1x)
+DC-F	AP1 (2x)
+DC-F	AP3 (2x)
+SUB-SPEAKER	AP5 (1x)
+SUB-SPEAKER	AP6 (2x)
-12-15V	AP1 (4x)
-12-15V	AP4 (6x)
-12-15V	AP5 (14x)
-12-15V	AP6 (6x)
-12-15V	AP7 (8x)
AL-OFF	AP1 (2x)
AUDIO-L	AP4 (1x)
AUDIO-L	AP5 (1x)
AUDIO-PROT	AP5 (3x)
AUDIO-R	AP4 (1x)
AUDIO-R	AP5 (1x)
AUDIO-SW	AP5 (1x)
AUDIO-SW	AP7 (1x)
BOOST	AP1 (2x)
CPROT	AP4 (2x)
CPROT	AP5 (1x)
CPROT-SW	AP5 (1x)
CPROT-SW	AP6 (2x)
-DC-F	AP1 (2x)
-DC-F	AP3 (2x)
DC-PROT	AP1 (1x)
DC-PROT	AP5 (2x)
DIM-CONTROL	AP1 (2x)
FEEDBACK+SW	AP6 (2x)
FEEDBACK-L	AP4 (2x)
FEEDBACK-R	AP4 (2x)
FEEDBACK-SW	AP6 (2x)
GND-AL	AP1 (2x)
GNDHA	AP1 (40x)
GNDHA	AP2 (20x)
GNDHA	AP3 (2x)
GNDHOT	AP3 (2x)
GND-L	AP1 (2x)
GND-L	AP4 (4x)
GND-L	AP5 (34x)
GND-LL	AP4 (7x)
GND-LL	AP5 (1x)
GND-LR	AP4 (7x)
GND-LR	AP5 (1x)
GND-LSW	AP5 (1x)
GND-LSW	AP6 (15x)
GND-S	AP1 (11x)
GND-SA	AP4 (8x)
GND-SA	AP5 (2x)
GND-SA	AP6 (8x)
GND-SA	AP7 (6x)
GNDscrew	AP3 (2x)
GNDscrew	AP5 (2x)
GND-SSB	AP5 (3x)
GND-SSP	AP1 (51x)
GND-SSP	AP2 (15x)
IN+SW	AP6 (2x)
IN-L	AP4 (2x)
IN-R	AP4 (2x)
IN-SW	AP6 (2x)
INV-MUTE	AP4 (1x)
INV-MUTE	AP5 (1x)
INV-MUTE	AP6 (1x)
LEFT-SPEAKER	AP4 (1x)
LEFT-SPEAKER	AP5 (1x)
MUTE	AP4 (2x)
MUTE	AP5 (1x)
MUTE	AP6 (2x)
ON-OFF	AP1 (3x)
OUT	AP6 (1x)
OUT	AP7 (2x)
OUTN	AP6 (1x)
OUTN	AP7 (1x)
POWER-GOOD	AP1 (2x)
POWER-OK-PLATFORM	AP1 (2x)
RIGHT-SPEAKER	AP4 (1x)
RIGHT-SPEAKER	AP5 (1x)
SOUND-ENABLE	AP5 (3x)
STANDBY	AP1 (5x)
STANDBY	AP2 (1x)
-SUB-SPEAKER	AP5 (1x)
-SUB-SPEAKER	AP6 (2x)
V-CLAMP	AP1 (1x)
V-CLAMP	AP3 (2x)
VN	AP4 (4x)

1.1. Introduction

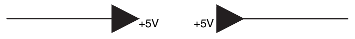
SRP (Service Reference Protocol) is a software tool that creates a list with all references to signal lines. The list contains references to the signals within all schematics of a PWB. It replaces the text references currently printed next to the signal names in the schematics. These printed references are created manually and are therefore not guaranteed to be 100% correct. In addition, in the current crowded schematics there is often none or very little place for these references.
Some of the PWB schematics will use SRP while others will still use the manual references. Either there will be an SRP reference list for a schematic, or there will be printed references in the schematic.

1.2. Non-SRP Schematics

There are several different signals available in a schematic:

1.2.1. Power Supply Lines

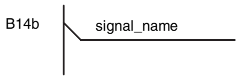
All power supply lines are available in the supply line overview (see chapter 6). In the schematics (see chapter 7) is not indicated where supplies are coming from or going to.
It is however indicated if a supply is incoming (created elsewhere), or outgoing (created or adapted in the current schematic).



Outgoing Incoming

1.2.2. Normal Signals

For normal signals, a schematic reference (e.g. B14b) is placed next to the signals.

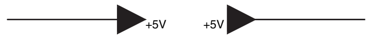


1.2.3. Grounds

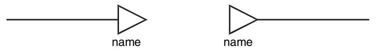
For normal and special grounds (e.g. GNDHOT or GND3V3 etc.), nothing is indicated.

1.3. SRP Schematics

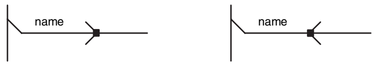
SRP is a tool, which automatically creates a list with signal references, indicating on which schematic the signals are used.
A reference is created for all signals indicated with an SRP symbol, these symbols are:



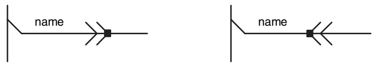
Power supply line.



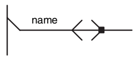
Stand alone signal or switching line (used as less as possible).



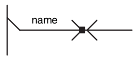
Signal line into a wire tree.



Switching line into a wire tree.



Bi-directional line (e.g. SDA) into a wire tree.



Signal line into a wire tree, its direction depends on the circuit (e.g. ingoing for PDP, outgoing for LCD sets).

Remarks:

- When there is a black dot on the "signal direction arrow" it is an SRP symbol, so there will be a reference to the signal name in the SRP list.
- All references to normal grounds (Ground symbols without additional text) are not listed in the reference list, this to keep it concise.
- Signals that are not used in multiple schematics, but only once or several times in the same schematic, are included in the SRP reference list, but only with one reference.

Additional Tip:

When using the PDF service manual file, you can very easily search for signal names and follow the signal over all the schematics. In Adobe PDF reader:

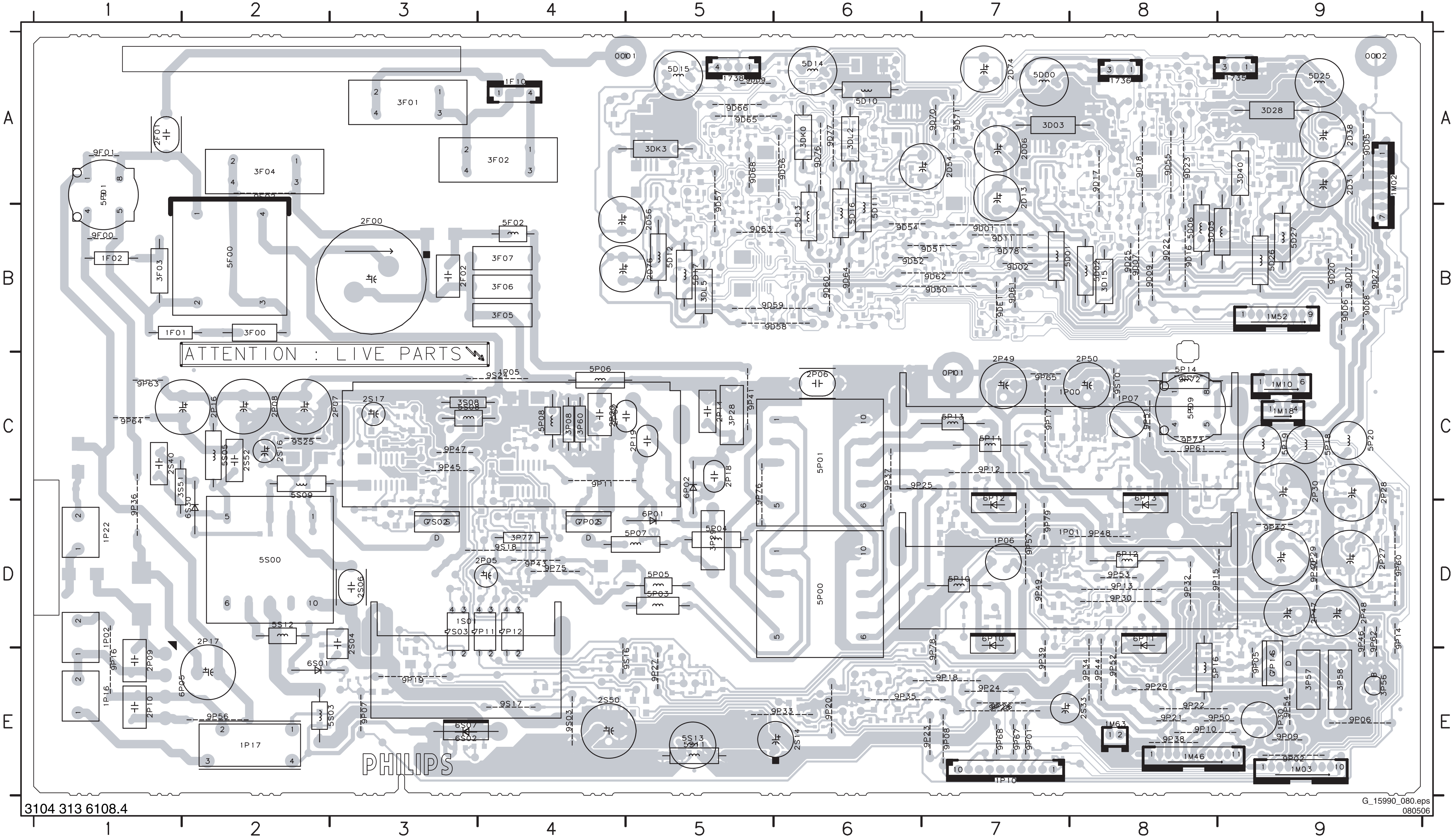
- Select the signal name you want to search for, with the "Select text" tool.
- Copy and paste the signal name in the "Search PDF" tool.
- Search for all occurrences of the signal name.
- Now you can quickly jump between the different occurrences and follow the signal over all schematics. It is advised to "zoom in" to e.g. 150% to see clearly, which text is selected. Then you can zoom out, to get an overview of the complete schematic.

PS. It is recommended to use at least Adobe PDF (reader) version 6.x, due to better search possibilities in this version.

G_15990_084.eps
090506

Layout Platform Supply 42” (Top Side)

0001 A5	1M03 E9	1P06 D7	2D31 A9	2P06 C6	2P20 C5	2S04 D3	3D15 B8	3F03 B1	3P58 E9	5D10 A6	5D27 B9	5P07 D5	5P19 C9	6P01 D5	6S30 D2	9D09 B8	9D50 B7	9D61 B7	9D77 A6	9F02 A2	9P12 C7	9P22 E8	9P33 E6	9P43 D4	9P53 D8	9P67 E7	9S16 E5
0002 A9	1M10 C9	1P07 C8	2D38 A9	2P07 C2	2P27 D9	2S06 D3	3D28 A9	3F04 A2	3P60 C4	5D11 B6	5F00 B2	5P08 C4	5P20 C9	6P02 C5	7P02 D4	9D11 B7	9D51 B7	9D62 B7	9D78 B7	9P01 E7	9P13 D8	9P23 E7	9P34 E8	9P44 E8	9P54 E9	9P68 E7	9S17 E4
0P01 C7	1M18 C9	1P10 E7	2D54 A7	2P08 C2	2P28 C9	2S14 E6	3D40 A9	3F05 B3	3P77 D4	5D12 B5	5F01 A1	5P09 C9	5S00 C2	6P05 E2	7P11 D4	9D16 B8	9D52 B6	9D63 B5	9DD5 A9	9P02 E9	9P14 D9	9P24 E7	9P35 E6	9P45 C4	9P56 E2	9P72 C8	9S18 D4
1735 A9	1M46 E8	1P16 E1	2D56 A4	2P09 D1	2P29 D9	2S16 C2	3DK0 A6	3F06 B3	3S08 C3	5D13 B6	5F02 B4	5P10 D7	5S03 E3	6P10 E7	7P12 D4	9D17 A8	9D54 B6	9D64 B6	9DD6 B9	9P05 E9	9P15 D9	9P25 C6	9P36 D1	9P46 D9	9P57 D7	9P73 C8	9S24 C4
1736 A8	1M52 B9	1P17 E2	2D74 A7	2P10 E1	2P30 C9	2S17 C3	3DK3 A5	3F07 B3	3S51 D1	5D14 A6	5P00 D6	5P11 C7	5S05 C2	6P11 E8	7P14 E9	9D18 A8	9D55 A8	9D65 A5	9DD7 B9	9P06 E9	9P16 E1	9P26 E7	9P37 C6	9P47 C3	9P60 D9	9P75 D4	9S25 C2
1738 A5	1M63 E8	1P22 D1	2D76 B4	2P14 C5	2P47 D9	2S33 E7	3DL2 A6	3P08 C4	5D00 A7	5D15 A5	5P01 C6	5P12 D8	5S08 C3	6P12 D7	7S02 D3	9D20 B9	9D56 A6	9D66 A5	9DD8 B9	9P07 E3	9P17 C7	9P27 E5	9P38 E8	9P48 D8	9P61 C8	9P76 C5	
1F01 B1	1P00 C8	1P30 E9	2F00 B3	2P16 C2	2P48 D9	2S40 C1	3DL5 B5	3P28 C5	5D01 B7	5D16 B6	5P03 D4	5P13 C7	5S09 C2	6P13 D8	7S03 D3	9D22 B8	9D57 A5	9D68 A5	9DD9 A5	9P08 E7	9P18 E7	9P28 E7	9P39 E7	9P49 D7	9P62 D9	9P78 E7	
1F02 B1	1P01 D6	1S01 D3	2F01 A1	2P17 D2	2P49 C7	2S50 E4	3F00 B2	3P29 D5	5D02 B8	5D17 B5	5P04 D5	5P14 C8	5S11 E5	6S01 E2	9D01 B7	9D23 A8	9D58 B6	9D70 A7	9DE1 B7	9P09 E9	9P19 E3	9P29 E8	9P40 D9	9P50 E9	9P63 C1	9P79 D7	
1F10 A4	1P02 D1	2D06 A7	2F02 B3	2P18 C5	2P50 C8	2S52 C2	3F01 A3	3P56 E9	5D05 B9	5D25 A9	5P05 D4	5P16 E8	5S12 D2	6S02 E3	9D02 B7	9D25 B8	9D59 B5	9D71 A7	9F00 B1	9P10 E8	9P20 E6	9P30 D8	9P41 C5	9P51 C8	9P64 C1	9S03 E4	
1M02 A9	1P05 C3	2D13 A7	2P05 D4	2P19 C5	2P52 C4	3D03 A7	3F02 A4	3P57 E9	5D06 B8	5D26 B9	5P06 C4	5P18 C9	5S13 E5	6S07 E3	9D07 B8	9D27 B9	9D60 B6	9D76 A6	9F01 A1	9P11 C4	9P21 E8	9P32 D8	9P42 D9	9P52 E8	9P65 C7	9S10 C8	



Layout Platform Supply 42” (Overview Bottom Side)

1P03 D9
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2D01 B2
2D02 A2
2D03 B2
2D04 B2
2D05 B2
2D07 A3
2D08 A3
2D09 A3
2D10 A2
2D12 A3
2D14 A3
2D16 A2
2D17 A2
2D18 A2
2D19 A2
2D20 A1
2D21 B2
2D25 A2
2D26 A2
2D27 A2
2D28 A2
2D29 A2
2D30 A2
2D32 B1
2D33 A1
2D34 A1
2D35 A1
2D37 A1
2D39 A1
2D40 A2
2D43 B3
2D44 B2
2D45 A2
2D46 A5
2D47 A5
2D50 A5
2D51 A4
2D52 A4
2D55 A4
2D57 B5
2D59 A4
2D60 B5
2D61 A5
2D62 B5
2D63 B5
2D64 B5
2D65 A5
2D71 A4
2D72 B5
2D73 A4
2D75 B5
2D77 A5
2D78 B5
2D79 B5
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2D81 A5
2D82 A5
2D83 A4
2D84 A5
2D85 B4
2D86 A4
2D87 B4
2D88 B4
2D90 B5
2D91 B4
2D92 B4
2D93 B4
2D94 B5
2D95 B4
2D96 B5
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2DD7 B4
2DD8 B1
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2DF2 A3
2DF3 B3
2DF5 B4
2DF9 A1
2P01 E2
2P02 D2
2P03 C6
2P04 C6
2P11 D6
2P12 E5
2P13 D1
2P21 D1
2P22 C1
2P23 D1
2P24 E1
2P25 C2
2P26 D1
2P31 C2
2P32 E4
2P33 D6
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2P35 D1
2P36 E4
2P37 C1
2P38 D3
2P39 D1
2P40 E5
2P42 D2
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2P53 D1
2P54 E4
2P55 C2
2P56 E5
2P57 E5
2P64 D3
2P80 D3
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2S13 E6
2S15 C7
2S18 C7
2S39 E2
2S41 E8
2S54 E6
2S56 E1
3999 D3
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3D02 B2
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3D10 B2
3D11 A2
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3DG5 B3
3DG6 B4
3DG7 B4
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3DG9 B3
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3DH1 B3
3DH2 B4
3DH4 B4
3DH5 B4
3DH6 B3
3DH7 B4
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3DI2 A4
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3DK2 A4
3DK4 A5
3DK5 A5
3DK6 A4
3DK7 B5
3DK8 A4
3DK9 A4
3DL0 A4
3DL1 A5
3DL4 B4
3DL7 A4
3DL8 B5
3DL9 B5
3DM0 B5
3DM1 A5
3DM2 A4
3DM4 B5
3DM6 A4
3DM7 B5
3DM8 A4
3DM9 B5
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3DN1 B5
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3DN3 A5
3DN4 A5
3DN5 A5
3DN6 A5
3DN7 A5
3DN8 B5
3DN9 A5
3DP0 B4
3DP1 B4
3P00 C1
3P01 D1
3P02 C1
3P03 D1
3P04 D6
3P05 C2
3P06 D2
3P07 C6
3P09 D1
3P10 D1
3P11 C1
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3P13 D6
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3P21 D1
3P22 C1
3P23 C1
3P24 C2
3P25 D6
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3P27 C6
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3P39 E3
3P40 D6
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3P42 E4
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3P44 E4
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3P46 E4
3P47 E2
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3P49 E4
3P50 C6
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3P52 D1
3P53 E1
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3P64 E5
3P65 E5
3P66 E5
3P67 E5
3P68 D6
3P69 D6
3P70 C3
3P71 C3
3P72 C2
3P73 D6
3P74 D6
3P75 D6
3P76 D1
3P78 D6
3P79 C3
3P80 C3
3P81 D2
3P82 D2
3P83 D3
3P84 D2
3P85 D2
3P86 D2
3P87 D2
3P88 D2
3P89 D3
3P90 D2
3P91 D2
3P92 D6
3P93 C1
3P94 C1
3P95 E4
3P96 C1
3P97 D1
3P98 D1
3P99 D1
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3S02 C2
3S03 C2
3S04 C2
3S14 E7
3S15 E6
3S16 E2
3S17 D7
3S18 E6
3S19 E7
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3S21 E7
3S22 D7
3S23 E7
3S24 E7
3S28 E7
3S29 D7
3S30 D7
3S31 C7
3S32 C7
3S33 C7
3S34 C7
3S35 C7
3S36 D7
3S37 C7
3S39 C7
3S41 E6
3S50 D7
3S59 E7
3S76 E6
5P21 D3
5P22 C2
5P23 D2
5P24 C3
5P25 C5
5P26 D5
5P27 C5
5P28 D5
5S01 C8
5S10 C8
5S14 E7
5S15 D7
5S16 D8
6DF0 B3
6DF1 B4
6DF2 B1
6F00 B7
6P03 D1
6P04 D1
6P06 D9
6P07 C9
6P09 C6
6P14 C2
6P15 D6
6P22 C2
6P23 D1
6P27 D6
6P28 D6
6P31 D6
6P34 E8
6P47 C6
6P50 E1
6P51 E1
6P52 C3
6P53 D2
6P80 D3
6P81 D3
6P82 D2
6P83 D2
6P84 D2
6P85 D2
6S04 E7
6S05 D7
6S09 C7
6S10 E5
6S11 C7
6S12 C8
6S13 C7
6S31 E2
6S47 C7
6S49 E5
7D00 A2
7D05 B2
7D06 A2
7D07 A2
7D08 A2
7D09 B2
7D10 A3
7D12 A2
7D30 B1
7D31 B1
7D32 A1
7D33 A2
7D34 A1
7D35 A1
7D37 A1
7D40 B5
7DD0 B1
7DF0 A4
7DF1 B3
7DF2 B3
7DF3 B3
7DF4 B3
7DF5 B4
7DF6 B4
7DF7 A3
7DF8 B4
7DF9 B4
7DH1 A4
7DK0 A4
7DK1 A5
7DK2 A4
7DK3 A4
7DK4 B4
7DK5 A4
7DK6 A4
7DK7 A4
7DL0 A5
7DL1 A5
7DL2 A6
7DL3 B5
7DL4 A5
7DL5 B5
7DL6 B5
7P03 D1
7P04 D1
7P06 E4
7P07 E4
7P09 E5
7P10 E4
7P15 D1
7P16 E5
7P17 C2
7P18 C3
7P19 D1
7P20 D1
7P21 D1
7P22 C1
7P23 C2
7P24 C1
7P26 D6
7P27 C6
7P30 E4
7P31 E3
7P38 E4
7P80 D3
7P81 D3
7P82 D2
7S04 E7
7S10 C7
7S11 C7
7S31 E2
7S40 E6
9D14 A2
9D15 A1
9D28 A3
9D53 B4
9D67 B3
9D69 A4
9D72 B2
9D73 A4
9D84 B3
9D85 B3
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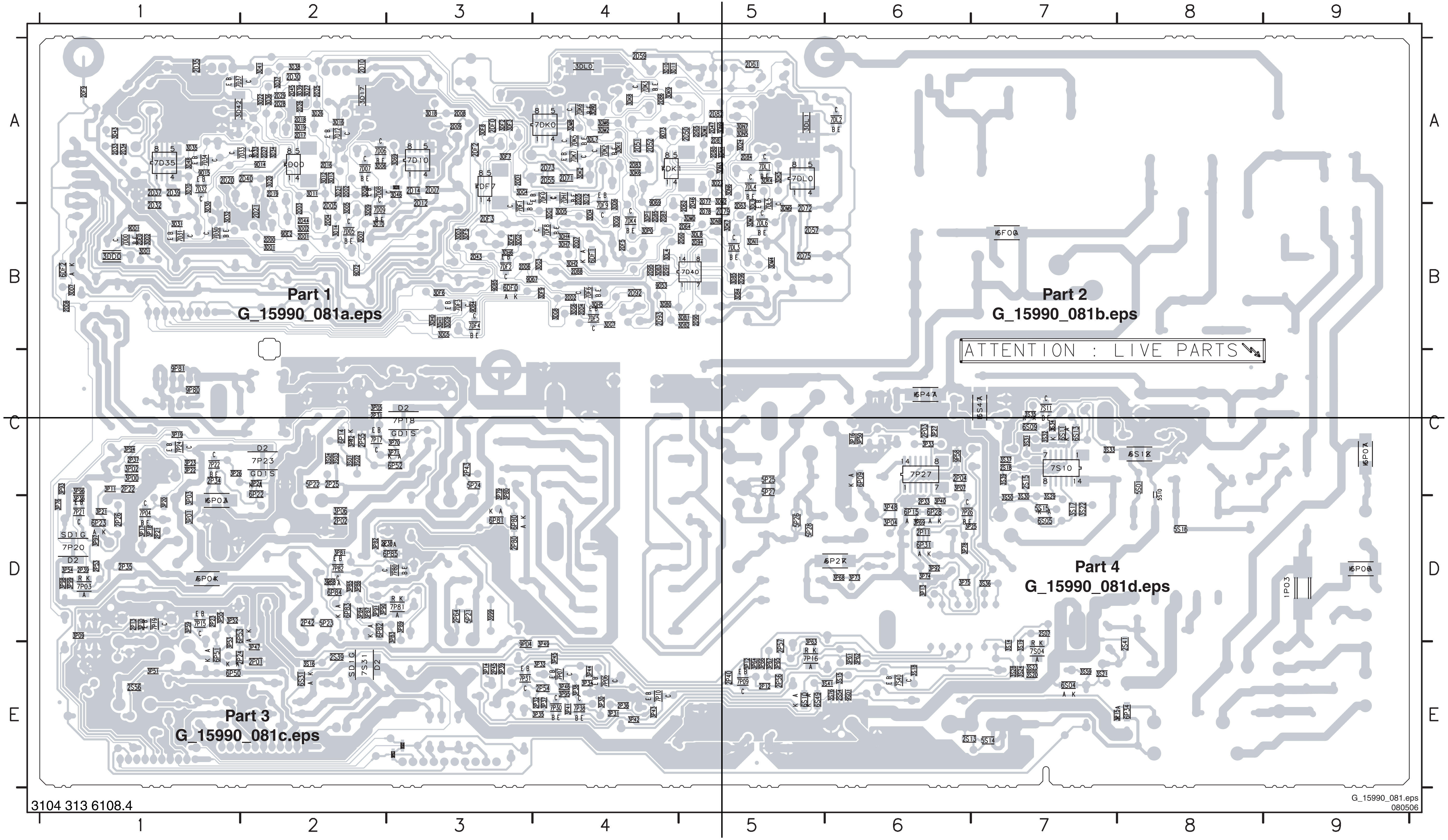
9P81 C1
9S01 E6
9S02 E3



Layout Platform Supply 42” (Part 1 Bottom Side)

1P03 D9
2D00 B2
2D01 B2
2D02 A2
2D03 B2
2D04 B2
2D05 B2
2D07 A3
2D08 A3
2D09 A3
2D10 A2
2D12 A3
2D14 A3
2D16 A2
2D17 A2
2D18 A2
2D19 A2
2D20 A1
2D21 B2
2D25 A2
2D26 A2
2D27 A2
2D28 A2
2D29 A2
2D30 A2
2D32 B1
2D33 A1
2D34 A1
2D35 A1
2D37 A1
2D39 A1
2D40 A2
2D43 B3
2D44 B2
2D45 A2
2D46 A5
2D47 A5
2D50 A5
2D51 A4
2D52 A4
2D55 A4
2D57 B5
2D59 A4
2D60 B5
2D61 A5
2D62 B5
2D63 B5
2D64 B5
2D65 A5
2D71 A4
2D72 B5
2D73 A4
2D75 B5
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2D80 A5
2D81 A5
2D82 A5
2D83 A4
2D84 A5
2D85 B4
2D86 A4
2D87 B4
2D88 B4
2D90 B5
2D91 B4
2D92 B4
2D93 B4
2D94 B5
2D95 B4
2D96 B5
2DD1 A3
2DD2 B4
2DD4 B4
2DD5 A4
2DD6 B3
2DD7 B4
2DD8 B1
2DE0 B1
2DF0 A3
2DF2 A3
2DF3 B3
2DF5 B4
2DF9 A1
2P01 E2
2P02 D2
2P03 C6
2P04 C6
2P11 D6
2P12 E5
2P13 D1
2P21 D1
2P22 C1
2P23 D1
2P24 E1
2P25 C2
2P26 D1
2P31 C2
2P32 E4
2P33 D6
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2P35 D1
2P36 E4
2P37 C1
2P38 D3
2P39 D1
2P40 E5
2P42 D2
2P43 C3
2P45 E3
2P53 D1
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2P57 E5
2P64 D3
2P80 D3
2S07 D7
2S13 E6
2S15 C7
2S18 C7
2S39 E2
2S41 E8
2S54 E6
2S56 E1
3999 D3
3D01 B2
3D02 B2
3D05 B2
3D06 A2
3D07 B2
3D08 A2
3D09 B2
3D10 B2
3D11 A2
3D12 A2
3D13 A2
3D14 B2
3D16 A2
3D17 A2
3D18 A3
3D19 A2
3D20 A2
3D21 A2
3D22 A2
3D23 A5
3D24 A5
3D26 A2
3D27 A2
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3D31 B1
3D32 B1
3D33 A2
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3D35 A1
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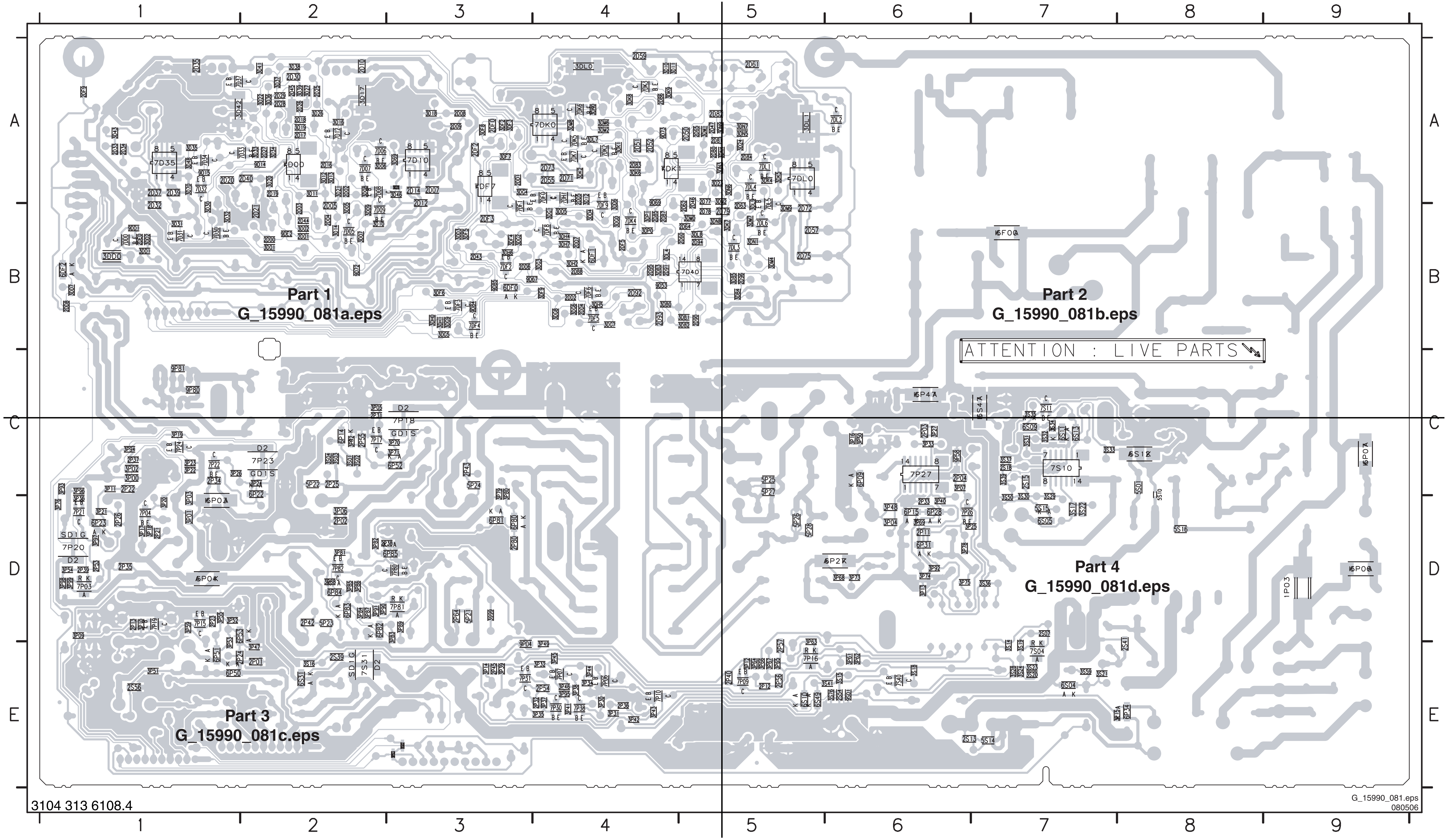
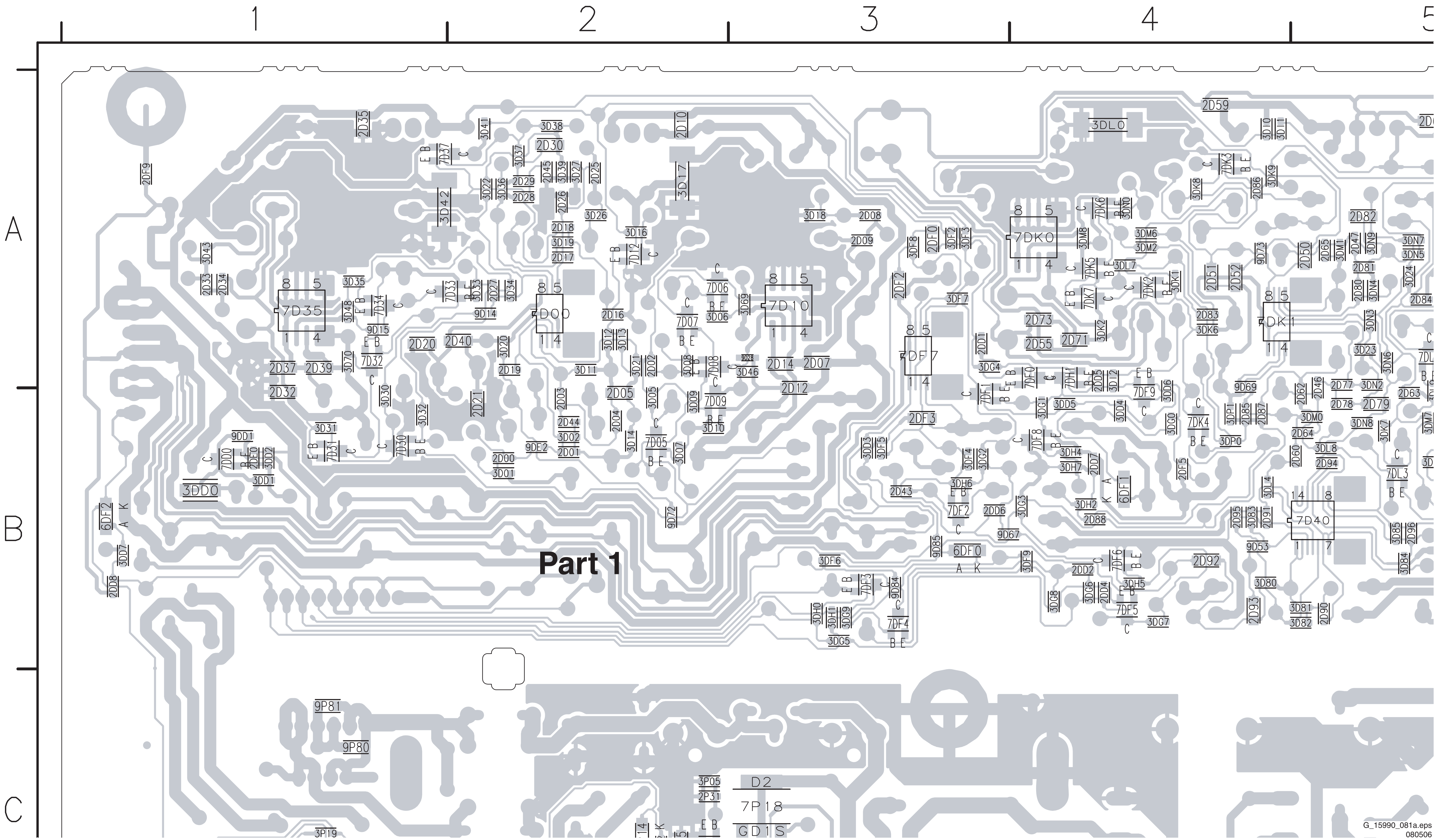


Layout Platform Supply 42” (Part 1 Bottom Side)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GD1S
3P19

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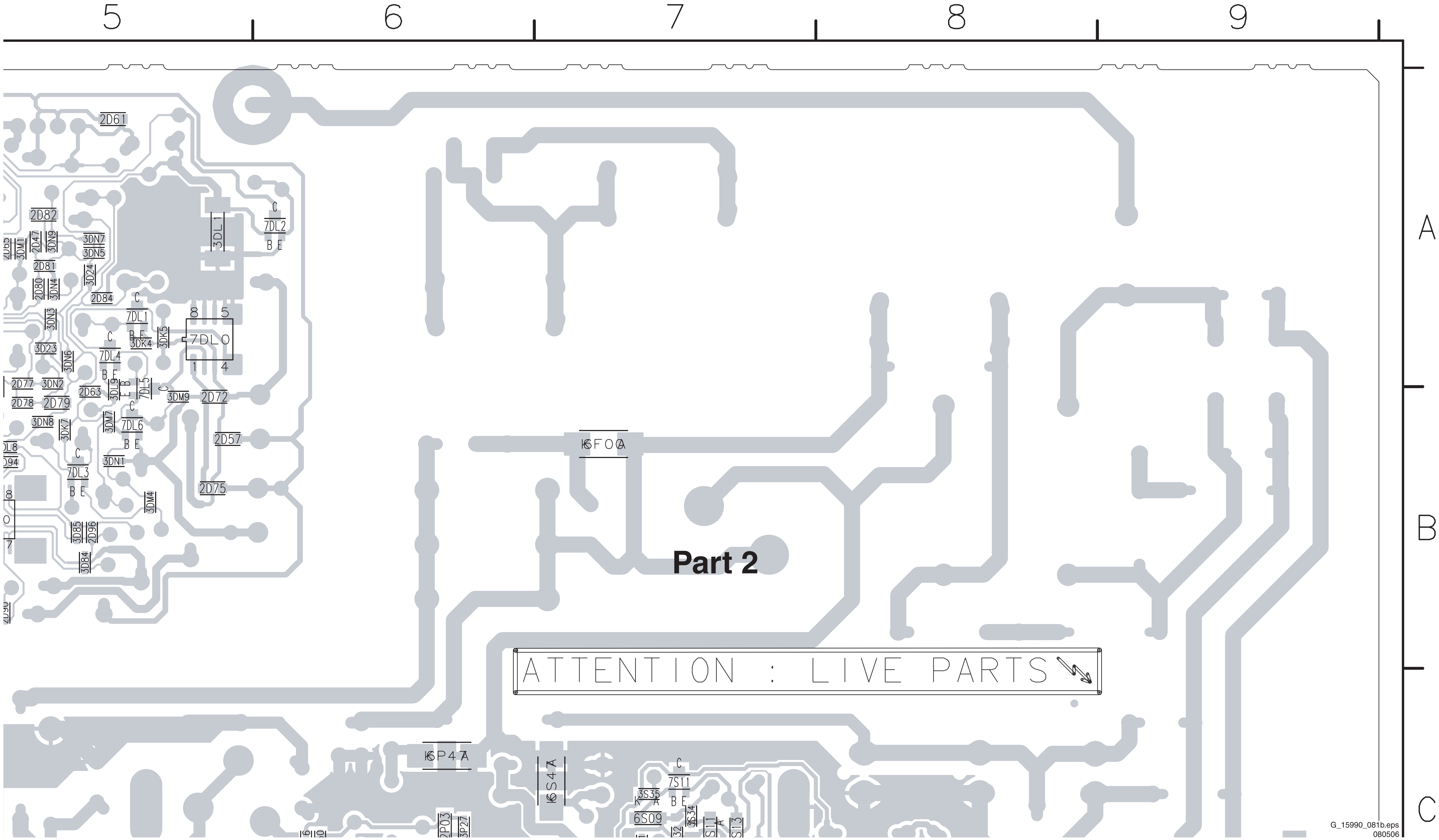
Layout Platform Supply 42” (Part 2 Bottom Side)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Part 2
ATTENTION : LIVE PARTS
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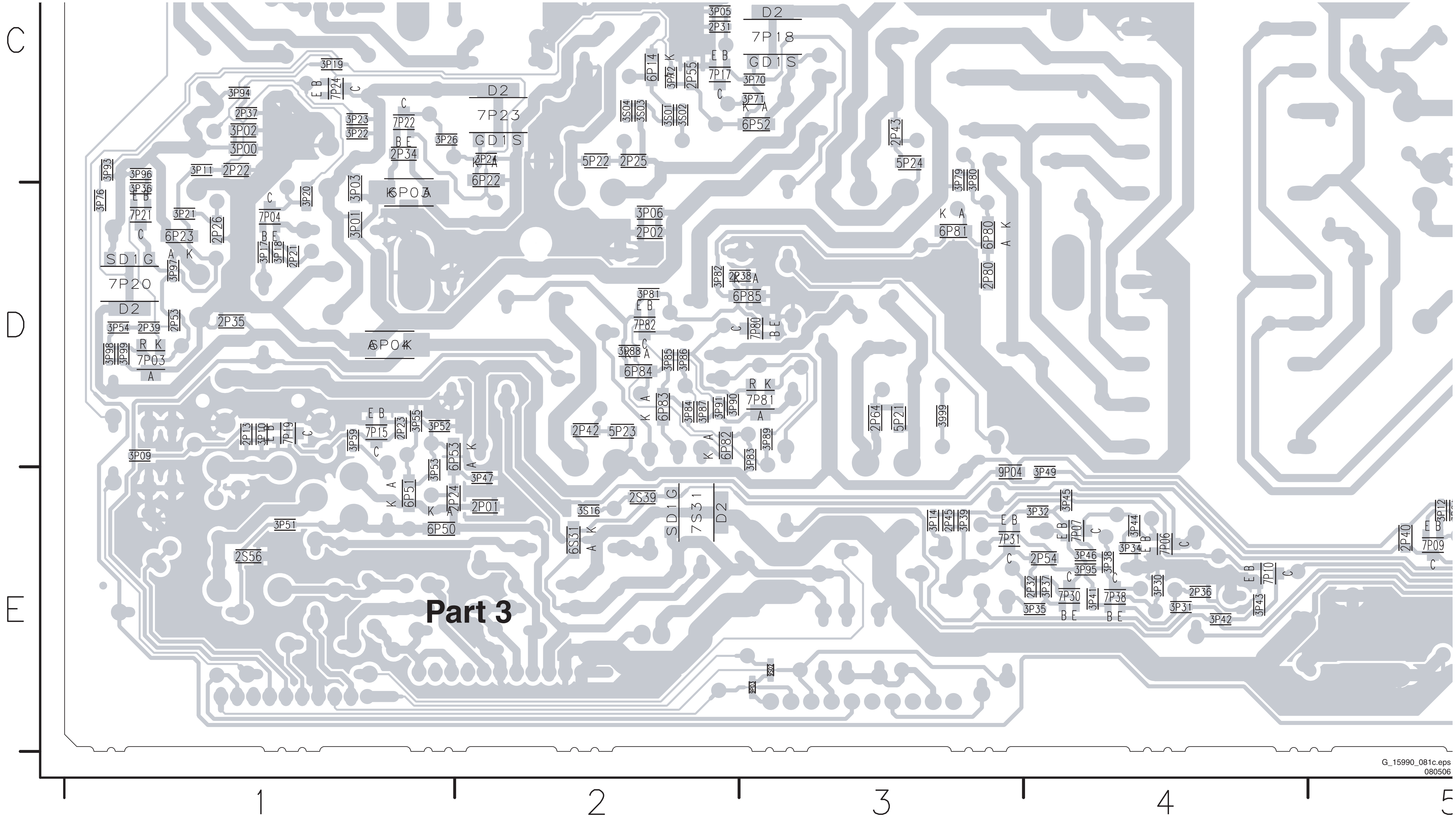
Layout Platform Supply 42” (Part 3 Bottom Side)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Part 3
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7P15
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7P07
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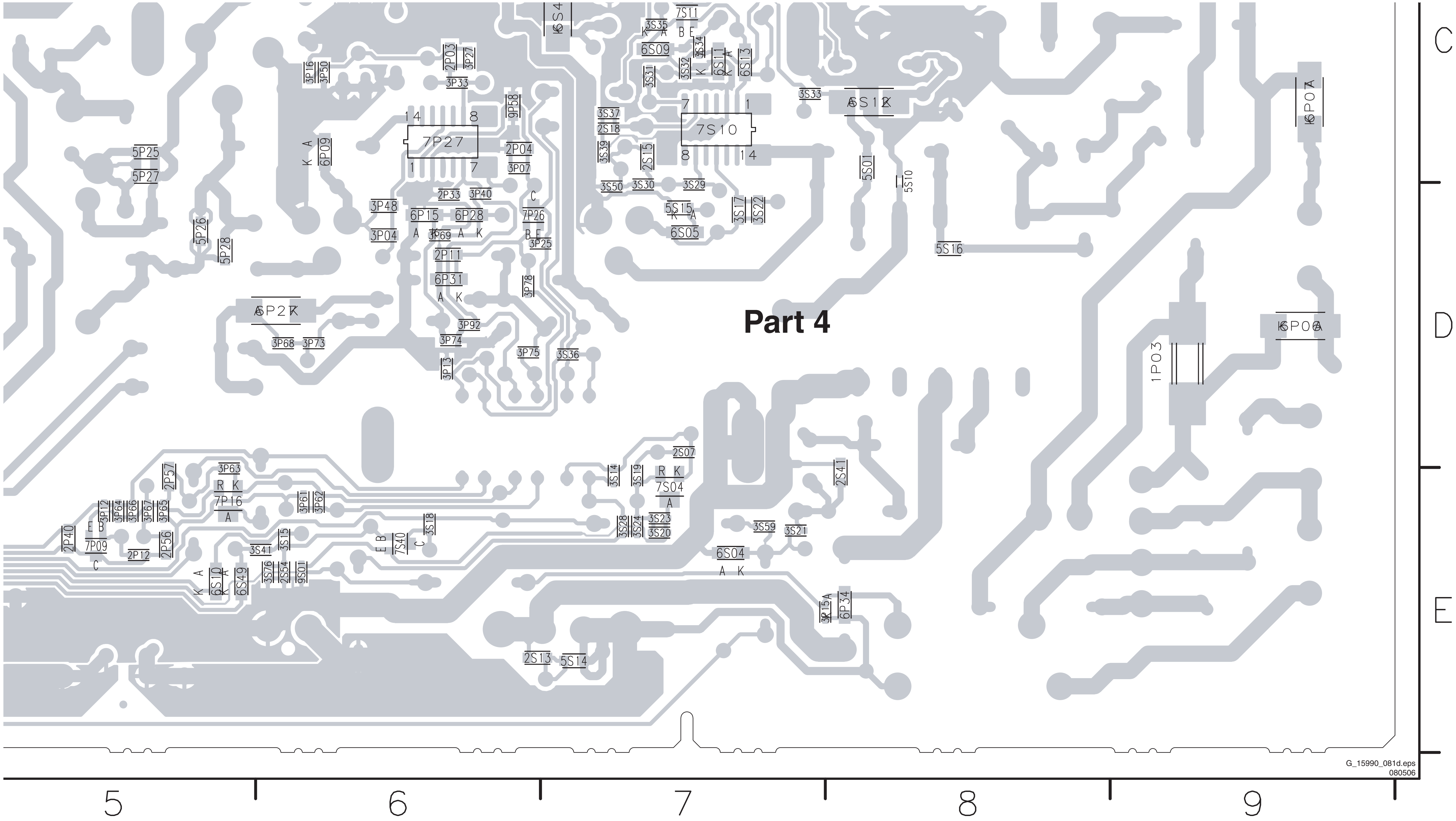
Layout Platform Supply 42” (Part 4 Bottom Side)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2S13
5S14

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SSB: DC/DC Part 1

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2U0Z E3
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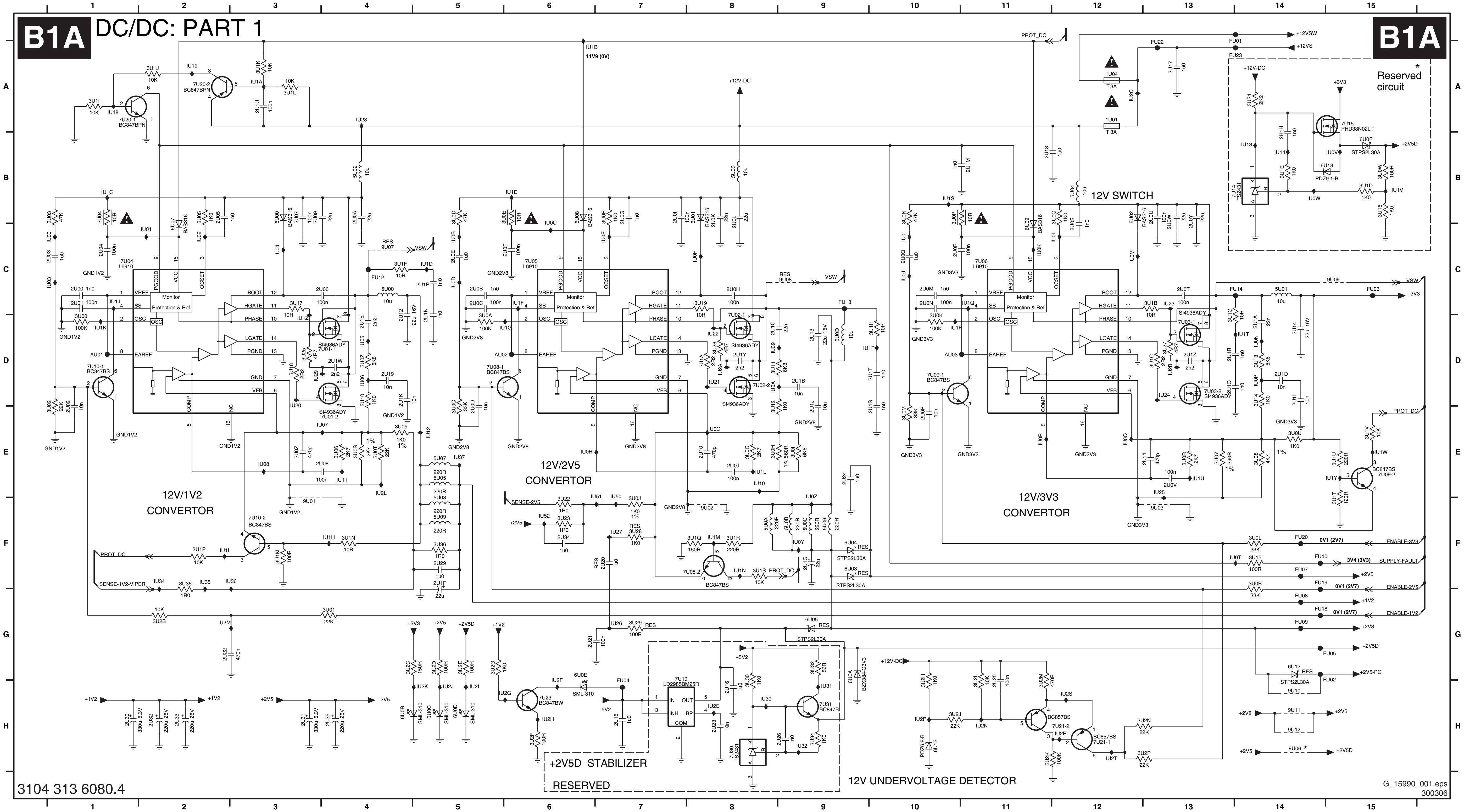
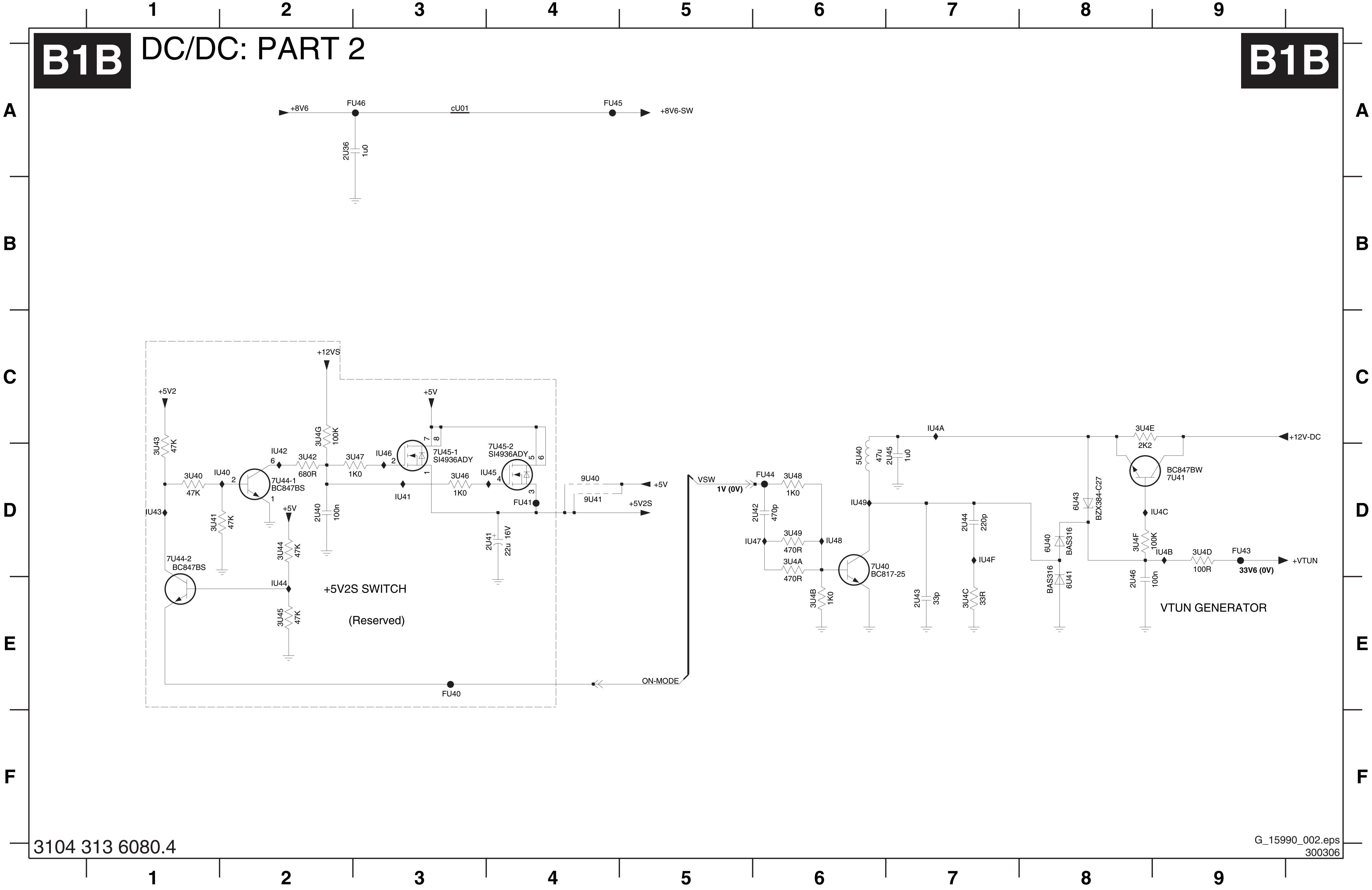
IU1D C5
IU1E B6
IU1F C6
IU1G D6
IU1H F4
IU1I F2
IU1J C1
IU1K D1
IU1L E8
IU1M F8
IU1N F8
IU1P D9
IU1Q C11
IU1R D10
IU1S B10
IU1T D14
IU1U E13
IU1V B15
IU1W E15
IU1Y E15
IU1Z D3
IU20 D3
IU21 D8
IU22 D8
IU23 C13
IU24 D13
IU25 E13
IU26 G7
IU27 F7
IU28 A4
IU29 D3
IU2A D8
IU2B D13
IU2C A12
IU2E H8
IU2F G6
IU2G H6
IU2H H6
IU2I H5
IU2J H5
IU2K H5
IU2L E4
IU2M G2
IU2N H11
IU2P H10
IU2R H12
IU2S H12
IU2T H12
IU30 H8
IU31 H9
IU32 H9
IU34 F2
IU35 F2
IU36 F3
IU37 E5
IU50 E7
IU51 E7
IU52 F6



SSB: DC/DC Part 2


B1B
DC/DC: PART 2
B1B
1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
+8V6
FU46
cU01
FU45
+8V6-SW
2U36
1u0
+12VS
+5V2
+5V
3U43
47K
3U40
47K
IU40
2
IU42
6
3U42
680R
3U4G
100K
3U47
1K0
IU46
2
7
8
7U45-1
SI4936ADY
7U45-2
SI4936ADY
5
6
7U44-1
BC847BS
1
IU41
3U46
1K0
IU45
4
3
FU41
9U40
+5V
9U41
+5V2S
IU43
3U41
47K
+5V
2U40
100n
2U41
22u 16V
3U44
47K
7U44-2
BC847BS
IU44
+5V2S SWITCH
(Reserved)
3U45
47K
ON-MODE
FU40
VSW
1V (0V)
FU44
3U48
1K0
2U42
470p
3U49
470R
IU47
IU48
3U4A
470R
3U4B
1K0
7U40
BC817-25
5U40
47u
2U45
1u0
IU4A
IU49
2U43
33p
2U44
220p
IU4F
3U4C
33R
6U43
BZX384-C27
6U40
BAS316
BAS316
6U41
3U4E
2K2
+12V-DC
BC847BW
7U41
IU4C
3U4F
100K
IU4B
2U46
100n
3U4D
100R
FU43
33V6 (0V)
+VTUN
VTUN GENERATOR
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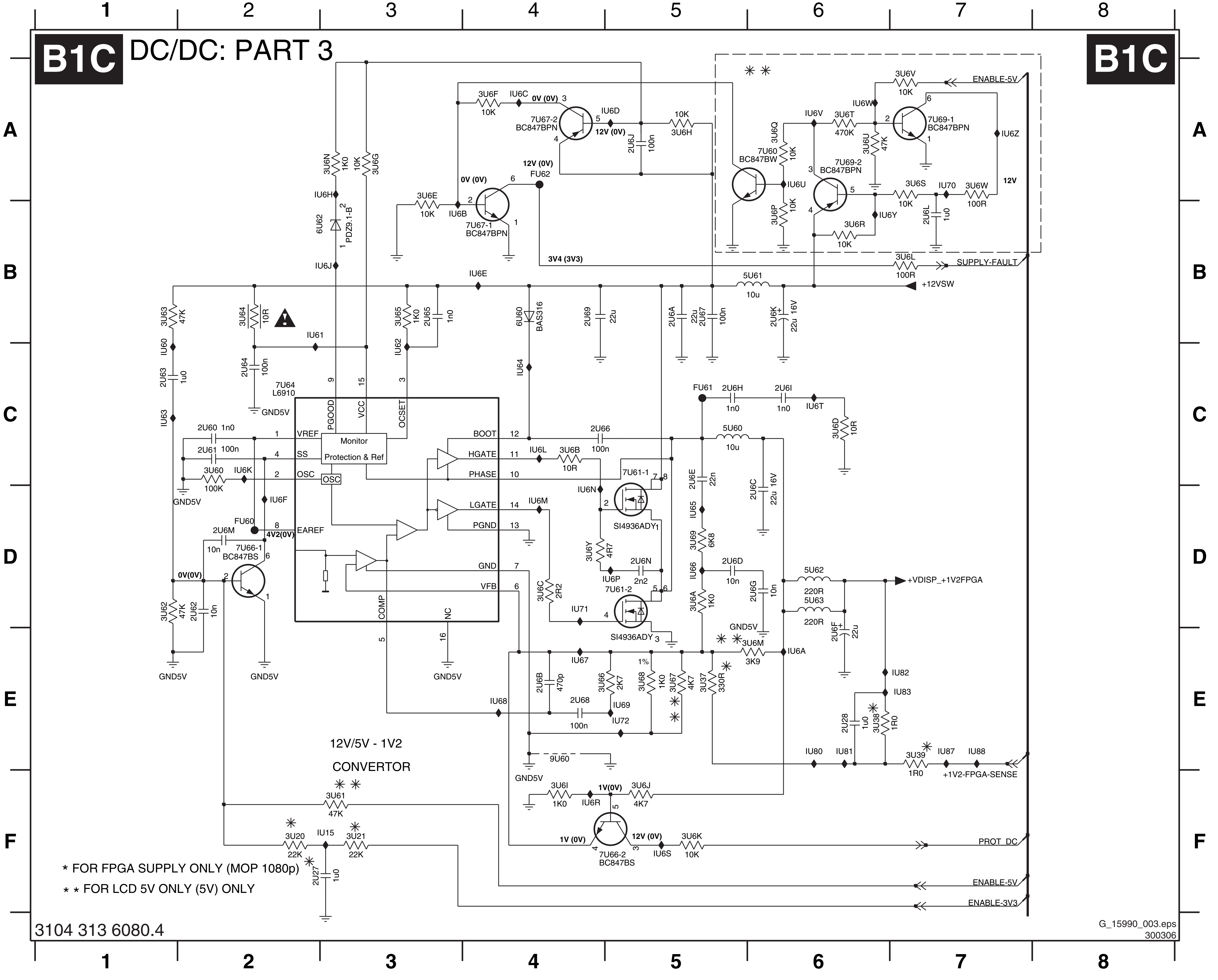
300306

2U36	A2
2U40	D2
2U41	D4
2U42	D6
2U43	E7
2U44	D7
2U45	D7
2U46	E8
3U40	D1
3U41	D1
3U42	D2
3U43	D1
3U44	D2
3U45	E2
3U46	D3
3U47	D3
3U48	D6
3U49	D6
3U4A	D6
3U4B	E6
3U4C	E7
3U4D	D9
3U4E	C8
3U4F	D8
3U4G	C2
5U40	D6
6U40	D8
6U41	E8
6U43	D8
7U40	D6
7U41	D9
7U44-1	D2
7U44-2	D1
7U45-1	D3
7U45-2	D4
9U40	D4
9U41	D4
FU40	E3
FU41	D4
FU43	D9
FU44	D6
FU45	A4
FU46	A3
IU40	D2
IU41	D3
IU42	D2
IU43	D1
IU44	E2
IU45	D4
IU46	D3
IU47	D6
IU48	D6
IU49	D6
IU4A	C7
IU4B	D9
IU4C	D9
IU4F	D7
cU01	A3

SSB: DC/DC Part 3


B1C
DC/DC: PART 3
B1C
1
2
3
4
5
6
7
8
A
B
C
D
E
F
7U64
L6910
PGOOD
VCC
OCSET
VREF
SS
OSC
EAREF
Monitor
Protection & Ref
BOOT
HGATE
PHASE
LGATE
PGND
GND
VFB
COMP
NC
7U67-2
BC847BPN
7U67-1
BC847BPN
7U60
BC847BW
7U69-1
BC847BPN
7U69-2
BC847BPN
7U61-1
SI4936ADY
7U61-2
SI4936ADY
7U66-1
BC847BS
7U66-2
BC847BS
6U62
PDZ9.1-B
6U60
BAS316
5U61
10u
5U60
10u
5U62
220R
5U63
220R
9U60
ENABLE-5V
SUPPLY-FAULT
+12VSW
+VDISP_+1V2FPGA
+1V2-FPGA-SENSE
PROT_DC
ENABLE-5V
ENABLE-3V3
GND5V
12V (0V)
0V (0V)
3V4 (3V3)
4V2(0V)
1V(0V)
1V (0V)
12V
12V/5V - 1V2
CONVERTOR

* FOR FPGA SUPPLY ONLY (MOP 1080p)

* * FOR LCD 5V ONLY (5V) ONLY

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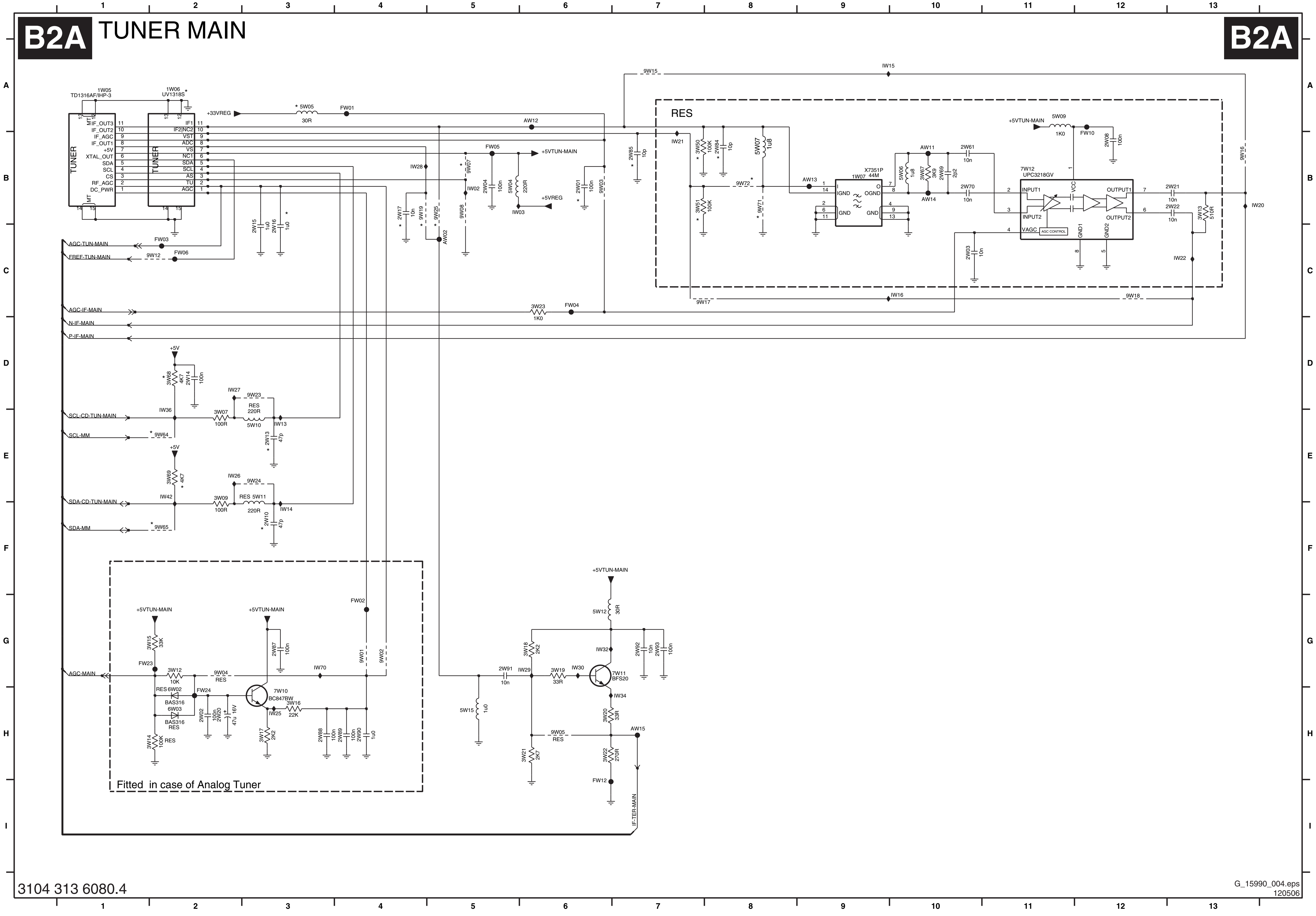
G_15990_003.eps
300306

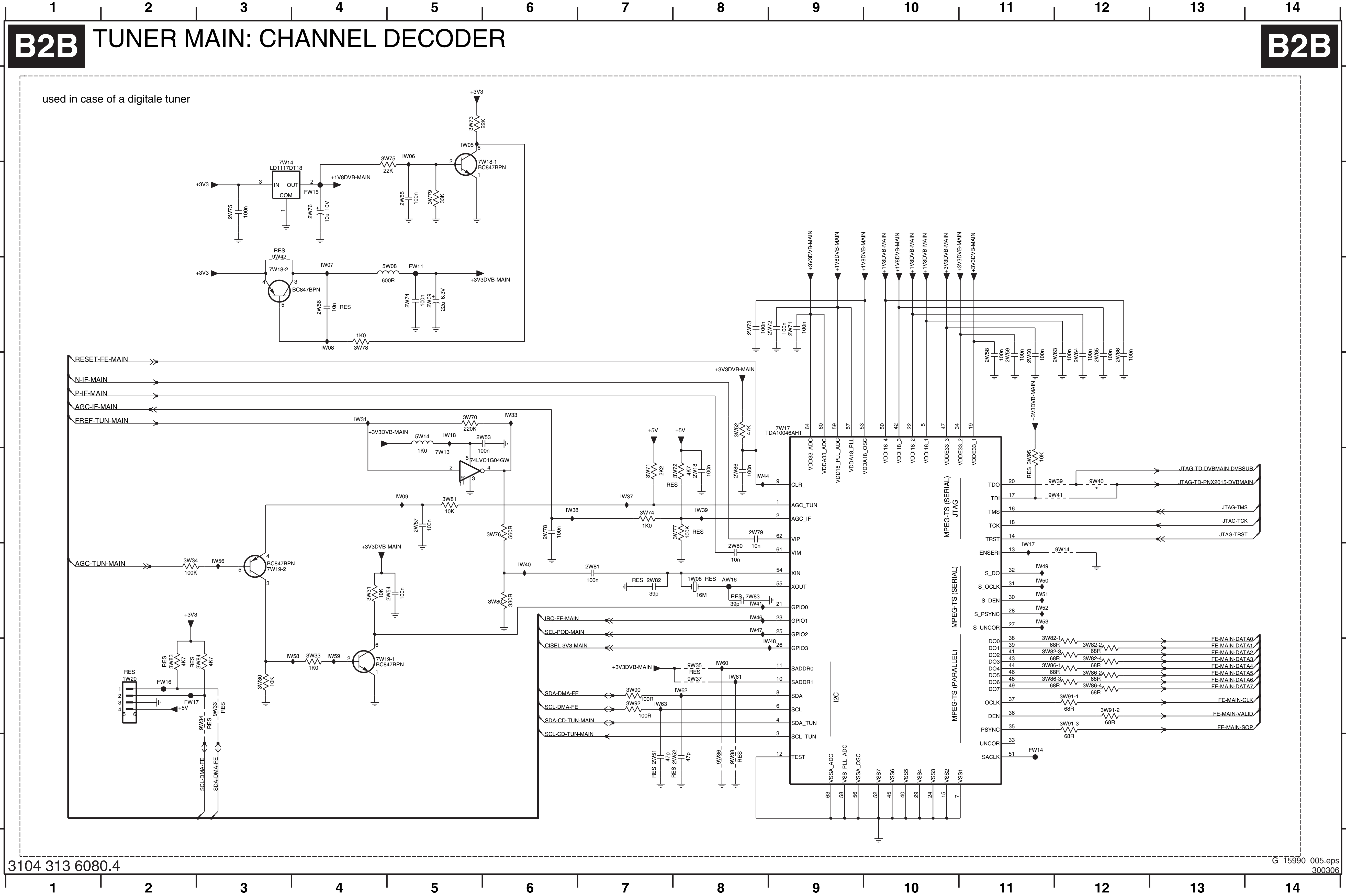
2U27	F2
2U28	E6
2U60	C2
2U61	C2
2U62	D2
2U63	C1
2U64	C2
2U65	B3
2U66	C4
2U67	B5
2U68	E4
2U69	B4
2U6A	B5
2U6B	E4
2U6C	D6
2U6D	D5
2U6E	C5
2U6F	E6
2U6G	D6
2U6H	C5
2U6I	C6
2U6J	A5
2U6K	B6
2U6L	B7
2U6M	D2
2U6N	D5
3U20	F2
3U21	F3
3U37	E5
3U38	E6
3U39	E7
3U60	C2
3U61	F3
3U62	D1
3U63	B1
3U64	B2
3U65	B3
3U66	E4
3U67	E5
3U68	E5
3U69	D5
3U6A	D5
3U6B	C4
3U6C	D4
3U6D	C6
3U6E	A3
3U6F	A4
3U6G	A3
3U6H	A5
3U6I	F4
3U6J	F5
3U6K	F5
3U6L	B7
3U6M	E6
3U6N	A3
3U6P	B6
3U6Q	A6
3U6R	B6
3U6S	A7
3U6T	A6
3U6U	A6
3U6V	A7
3U6W	A7
3U6Y	D4
5U60	C5
5U61	B6
5U62	D6
5U63	D6
6U60	B4
6U62	B2
7U60	A6
7U61-1	C5
7U61-2	D5
7U64	C2
7U66-1	D2
7U66-2	F4
7U67-1	B4
7U67-2	A4
7U69-1	A7
7U69-2	A6
9U60	E4
FU60	D2
FU61	C5
FU62	A4
IU15	F3
IU60	C1
IU61	B2
IU62	C3
IU63	C1
IU64	C4
IU65	D5
IU66	D5
IU67	E4
IU68	E4
IU69	E5
IU6A	E6
IU6B	B3
IU6C	A4
IU6D	A5
IU6E	B4
IU6F	D2
IU6H	A3
IU6J	B3
IU6K	C2
IU6L	C4
IU6M	D4
IU6N	D4
IU6P	D5
IU6R	F4
IU6S	F5
IU6T	C6
IU6U	A6
IU6V	A6
IU6W	A6
IU6Y	B6
IU6Z	A7
IU70	A7
IU71	D4
IU72	E5
IU80	E6
IU81	E6
IU82	E7
IU83	E7
IU87	E7
IU88	E7

SSB: Tuner Main


B2A
TUNER MAIN
B2A
RES
1W05
TD1316AF/IHP-3
1W06
UV1318S
TUNER
TUNER
MT
IF_OUT3
IF_OUT2
IF_AGC
IF_OUT1
+5V
XTAL_OUT
SDA
SCL
CS
RF_AGC
DC_PWR
IF1
IF2|NC2
VST
ADC
VS
NC1
SDA
SCL
AS
TU
AGC
+33VREG
5W05
30R
FW01
AW12
FW05
+5VTUN-MAIN
+5VREG
IW28
IW02
IW03
AW02
FW03
FW06
AGC-TUN-MAIN
FREF-TUN-MAIN
9W12
AGC-IF-MAIN
N-IF-MAIN
P-IF-MAIN
3W23
1K0
FW04
9W15
IW15
IW21
2W85
10p
3W50
100K
2W84
10p
5W07
1u8
3W51
100K
9W72
9W71
AW13
1W07
X7351P
44M
IGND
OGND
GND
GND
5W06
1u8
3W67
3K9
2W69
2p2
AW11
2W61
10n
2W70
10n
AW14
+5VTUN-MAIN
5W09
1K0
FW10
2W08
100n
7W12
UPC3218GV
INPUT1
INPUT2
VAGC
AGC CONTROL
VCC
OUTPUT1
OUTPUT2
GND1
GND2
2W21
10n
2W22
10n
3W13
510R
IW20
9W16
2W03
10n
IW22
IW16
9W17
9W18
+5V
3W68
4K7
2W14
100n
IW27
9W23
RES
220R
5W10
3W07
100R
IW13
IW36
SCL-CD-TUN-MAIN
SCL-MM
9W64
2W13
47p
+5V
3W69
4K7
IW26
9W24
RES 5W11
220R
3W09
100R
IW14
IW42
SDA-CD-TUN-MAIN
SDA-MM
9W65
2W10
47p
2W15
1u0
2W16
1u0
2W17
10n
9W19
9W25
9W08
9W07
2W04
100n
5W04
220R
2W01
10n
9W03
+5VTUN-MAIN
+5VTUN-MAIN
FW02
3W15
33K
FW23
AGC-MAIN
3W12
10K
9W04
RES
IW70
RES 6W02
BAS316
6W03
BAS316
RES
FW24
7W10
BC847BW
IW25
3W16
22K
2W02
100n
2W20
47u 16V
2W87
100n
3W17
2K2
2W88
100n
2W89
100n
2W90
1u0
3W14
100K
RES
9W01
9W02
Fitted in case of Analog Tuner
+5VTUN-MAIN
5W12
30R
3W18
2K2
IW32
2W92
10n
2W93
100n
2W91
10n
IW29
3W19
33R
IW30
7W11
BFS20
IW34
5W15
1u0
3W20
33R
9W05
RES
AW15
3W21
2K7
3W22
270R
FW12
IF-TER-MAIN
3104 313 6080.4
G_15990_004.eps
120506
1
2
3
4
5
6
7
8
9
10
11
12
13
A
B
C
D
E
F
G
H
I

1W05	A1
1W06	A2
1W07	B9
2W01	B6
2W02	H2
2W03	C10
2W04	B5
2W08	B12
2W10	F3
2W13	E3
2W14	D2
2W15	C3
2W16	C3
2W17	B4
2W20	H2
2W21	B13
2W22	B13
2W61	B10
2W69	B10
2W70	B10
2W84	B8
2W85	B8
2W87	G3
2W88	H3
2W89	H4
2W90	H4
2W91	G5
2W92	G7
2W93	G7
3W07	E2
3W09	E2
3W12	G2
3W13	B13
3W14	H2
3W15	G2
3W16	H3
3W17	H3
3W18	G6
3W19	G6
3W20	H6
3W21	H6
3W22	H6
3W23	C6
3W50	B7
3W51	B7
3W67	B10
3W68	D2
3W69	E2
5W04	B5
5W05	A3
5W06	B10
5W07	B8
5W09	A11
5W10	E3
5W11	E3
5W12	G6
5W15	H5
6W02	H2
6W03	H2
7W10	H3
7W11	G7
7W12	B11
9W01	G4
9W02	G4
9W03	B6
9W04	G2
9W05	H6
9W07	B5
9W08	B5
9W12	C2
9W15	A7
9W16	B13
9W17	C7
9W18	C12
9W19	B4
9W23	D3
9W24	E3
9W25	B5
9W64	E2
9W65	F2
9W71	B8
9W72	B8
AW02	C5
AW11	B10
AW12	A6
AW13	B9
AW14	B10
AW15	H7
FW01	A4
FW02	G4
FW03	C2
FW04	C6
FW05	B5
FW06	C2
FW10	B12
FW12	I6
FW23	G1
FW24	H2
IW02	B5
IW03	B5
IW13	E3
IW14	F3
IW15	A9
IW16	C10
IW20	B13
IW21	B7
IW22	C13
IW25	H3
IW26	E2
IW27	D2
IW28	B4
IW29	G6
IW30	G6
IW32	G6
IW34	H7
IW36	E2
IW42	E2
IW70	G3

SSB: Tuner Main Channel Decoder


B2B
TUNER MAIN: CHANNEL DECODER
B2B
used in case of a digitale tuner
1 2 3 4 5 6 7 8 9 10 11 12 13 14
A B C D E F G H
7W14 LD1117DT18
IN OUT COM
+3V3
+1V8DVB-MAIN
FW15
2W75 100n
2W76 10u 10V
3W75 22K
IW06
IW05
2W55 100n
3W79 33K
3W73 22K
7W18-1 BC847BPN
7W18-2 BC847BPN
RES 9W42
IW07
5W08 600R
FW11
2W56 10n RES
2W74 100n
2W09 22u 6.3V
+3V3DVB-MAIN
IW08
1K0 3W78
RESET-FE-MAIN
N-IF-MAIN
P-IF-MAIN
AGC-IF-MAIN
FREF-TUN-MAIN
AGC-TUN-MAIN
IW31
3W70 220K
IW33
5W14 1K0
IW18
7W13
2W53 100n
74LVC1G04GW
IW09
3W81 10K
2W57 100n
3W76 560R
3W80 330R
IW40
2W78 100n
IW38
IW37
3W74 1K0
3W71 2K2
3W72 4K7
2W18 100n
3W77 100K
IW39
3W52 47K
2W86 100n
IW44
2W79 10n
2W80 10n
2W81 100n
2W82 39p
1W08 16M
AW16
2W83 39p
IW41
3W34 100K
IW56
7W19-2 BC847BPN
7W19-1 BC847BPN
3W31 10K
2W54 100n
3W30 10K
IW58
3W33 1K0
IW59
+3V3
3W83 4K7
3W84 4K7
RES 1W20
FW16
FW17
+5V
9W34 RES
9W33 RES
SCL-DMA-FE
SDA-DMA-FE
IRQ-FE-MAIN
SEL-POD-MAIN
CISEL-3V3-MAIN
IW46
IW47
IW48
+3V3DVB-MAIN
9W35 RES
9W37
IW60
IW61
SDA-DMA-FE
SCL-DMA-FE
SDA-CD-TUN-MAIN
SCL-CD-TUN-MAIN
3W90 100R
3W92 100R
IW62
IW63
2W51 47p
2W52 47p
9W36
9W38 RES
7W17 TDA10046AHT
2W73 2W72 2W71 100n
2W58 2W59 2W60 2W63 2W64 2W65 2W66 100n
+3V3DVB-MAIN
+1V8DVB-MAIN
VDD33_ADC VDDA33_ADC VDD18_PLL_ADC VDDA18_PLL VDDA18_OSC VDD18_4 VDD18_3 VDD18_2 VDD18_1 VDDE33_3 VDDE33_2 VDDE33_1
CLR_ AGC_TUN AGC_IF VIP VIM XIN XOUT GPIO0 GPIO1 GPIO2 GPIO3 SADDR0 SADDR1 SDA SCL SDA_TUN SCL_TUN TEST
I2C
MPEG-TS (SERIAL) JTAG
MPEG-TS (SERIAL)
MPEG-TS (PARALLEL)
TDO TDI TMS TCK TRST ENSERI
S_DO S_OCLK S_DEN S_PSYNC S_UNCOR
DO0 DO1 DO2 DO3 DO4 DO5 DO6 DO7
OCLK DEN PSYNC UNCOR SACLK
VSSA_ADC VSS_PLL_ADC VSSA_OSC VSS7 VSS6 VSS5 VSS4 VSS3 VSS2 VSS1
RES 3W95 10K
9W39 9W40 9W41
IW17
9W14
IW49 IW50 IW51 IW52 IW53
FW14
JTAG-TD-DVBMAIN-DVBSUB
JTAG-TD-PNX2015-DVBMAIN
JTAG-TMS
JTAG-TCK
JTAG-TRST
3W82-1 3W82-2 3W82-3 3W82-4 68R
3W86-1 3W86-2 3W86-3 3W86-4 68R
3W91-1 3W91-2 3W91-3 68R
FE-MAIN-DATA0
FE-MAIN-DATA1
FE-MAIN-DATA2
FE-MAIN-DATA3
FE-MAIN-DATA4
FE-MAIN-DATA5
FE-MAIN-DATA6
FE-MAIN-DATA7
FE-MAIN-CLK
FE-MAIN-VALID
FE-MAIN-SOP
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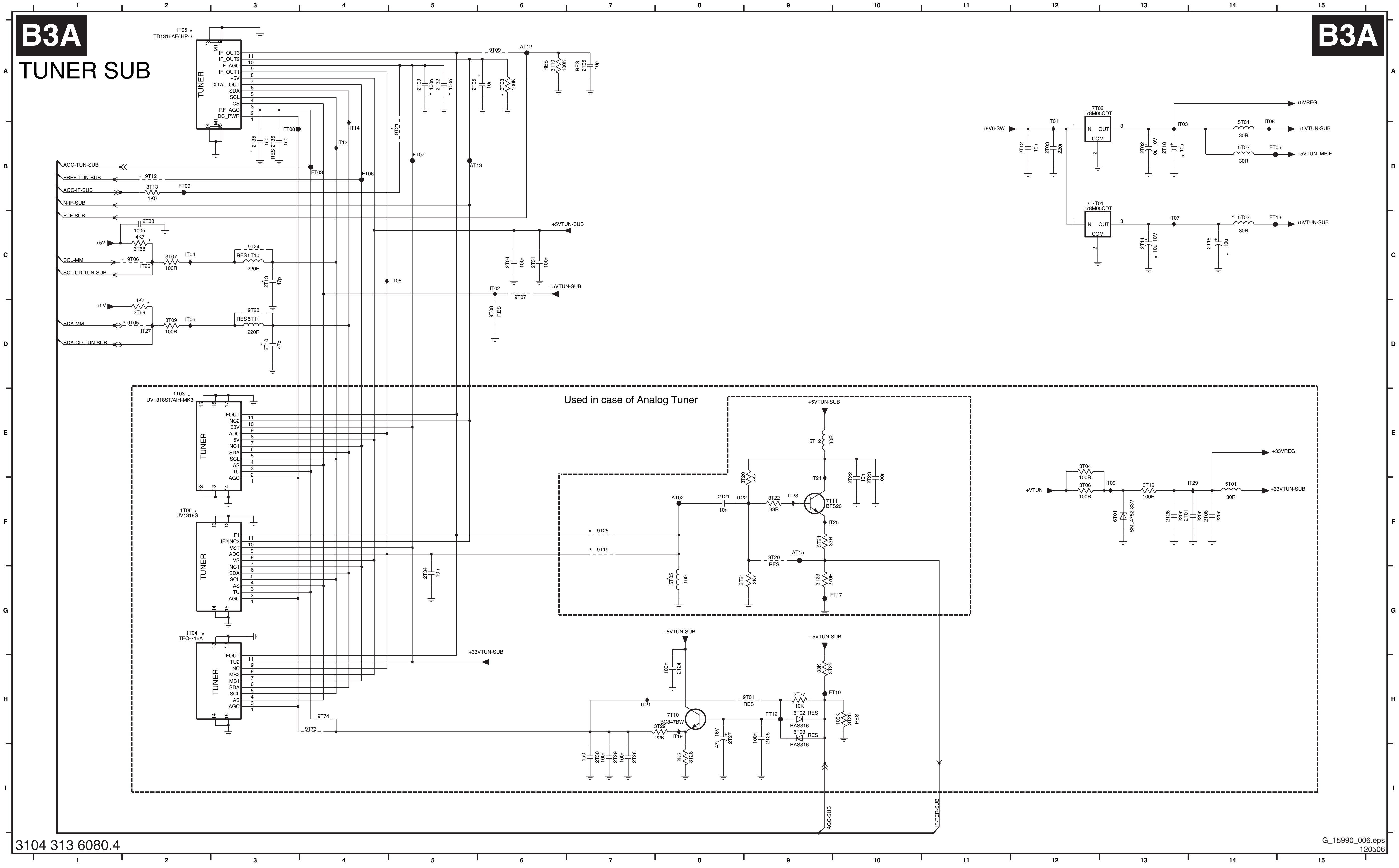
300306

1W08	F8
1W20	G2
2W09	C5
2W18	E8
2W51	H7
2W52	H8
2W53	D6
2W54	F5
2W55	B5
2W56	C4
2W57	E5
2W58	D11
2W59	D11
2W60	D11
2W63	D12
2W64	D12
2W65	D12
2W66	D12
2W71	C9
2W72	C9
2W73	C8
2W74	C5
2W75	B3
2W76	B4
2W78	E6
2W79	E8
2W80	F8
2W81	F7
2W82	F7
2W83	F8
2W86	E8
3W30	G3
3W31	F4
3W33	G4
3W34	F2
3W52	D8
3W70	D5
3W71	E7
3W72	E8
3W73	A5
3W74	E7
3W75	A5
3W76	E6
3W77	E8
3W78	C4
3W79	B5
3W80	F6
3W81	E5
3W82-1	G11
3W82-2	G12
3W82-3	G11
3W82-4	G12
3W83	G2
3W84	G3
3W86-1	G11
3W86-2	G12
3W86-3	G11
3W86-4	G12
3W90	G7
3W91-1	G12
3W91-2	G12
3W91-3	G12
3W92	G7
3W95	E11
5W08	C5
5W14	D5
7W13	E5
7W14	B3
7W17	D9
7W18-1	B5
7W18-2	C3
7W19-1	G4
7W19-2	F3
9W14	F12
9W33	G3
9W34	G3
9W35	G8
9W36	H8
9W37	G8
9W38	H8
9W39	E12
9W40	E12
9W41	E12
9W42	C3
AW16	F8
FW11	C5
FW14	H11
FW15	B4
FW16	G2
FW17	G2
IW05	A5
IW06	A5
IW07	C4
IW08	C4
IW09	E5
IW17	F11
IW18	D5
IW31	D4
IW33	D6
IW37	E7
IW38	E6
IW39	E8
IW40	F6
IW41	F8
IW44	E8
IW46	F8
IW47	F8

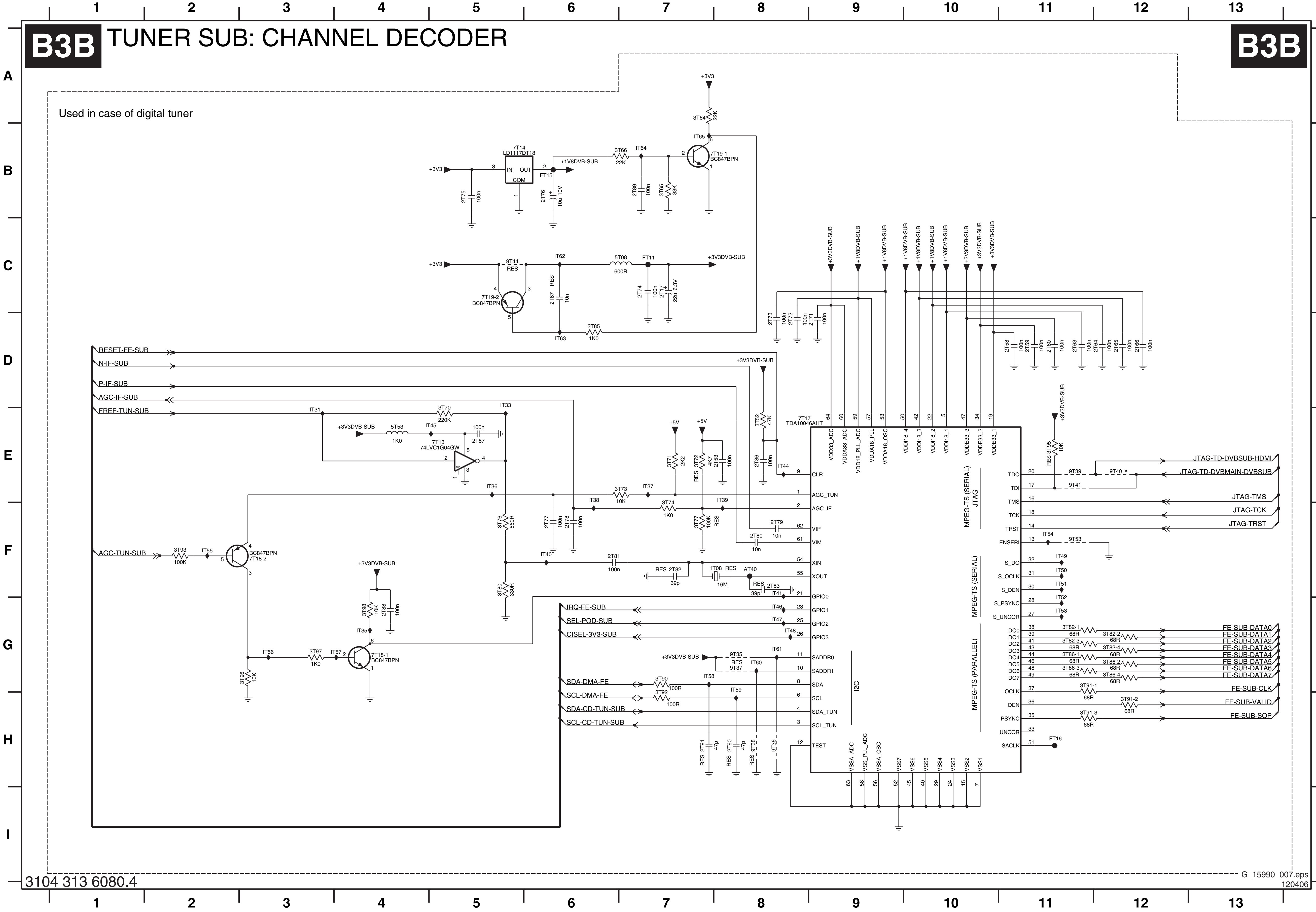
SSB: Tuner Sub

1T03	E2
1T04	G2
1T05	A2
1T06	F2
2T01	F13
2T02	B13
2T03	B12
2T04	C6
2T05	A5
2T06	A7
2T08	F14
2T09	A5
2T10	D3
2T12	B12
2T13	C3
2T14	C13
2T15	C14
2T18	B13
2T21	F8
2T22	F10
2T23	F10
2T24	H8
2T25	H9
2T26	F13
2T27	H8
2T28	I7
2T29	I7
2T30	I7
2T31	C6
2T32	A5
2T33	C2
2T34	G5
2T35	B3
2T36	B3
3T04	E12
3T06	F12
3T07	C2
3T08	A6
3T09	D2
3T10	A6
3T13	B2
3T16	F13
3T20	F9
3T21	G8
3T22	F9
3T23	G9
3T24	F9
3T25	H9
3T26	H10
3T27	H9
3T28	I8
3T29	H8
3T68	C2
3T69	D2
5T01	F14
5T02	B14
5T03	C14
5T04	B14
5T05	G8
5T10	C3
5T11	D3
5T12	E9
6T01	F13
6T02	H9
6T03	H9
7T01	B12
7T02	A12
7T10	H8
7T11	F9
9T01	H9
9T05	D2
9T06	C2
9T07	C6
9T08	D6
9T09	A6
9T12	B2
9T19	F7
9T20	F9
9T21	B5
9T23	D3
9T24	C3
9T25	F7
9T73	H4
9T74	H4
AT02	F8
AT12	A6
AT13	B5
AT15	F9
FT03	B4
FT05	B14
FT06	B4
FT07	B5
FT08	B3
FT09	B2
FT10	H10
FT12	H9
FT13	C14
FT17	G10
IT01	A12
IT02	C6
IT03	B13
IT04	C2
IT05	C5
IT06	D2
IT07	C13
IT08	A14
IT09	F13
IT13	B4
IT14	B4
IT19	H8
IT21	H7
IT22	F8
IT23	F9
IT24	F9
IT25	F10
IT26	C2
IT27	D2
IT29	F14



B3A
TUNER SUB
1T05 TD1316AF/IHP-3
TUNER
IF_OUT3
IF_OUT2
IF_AGC
IF_OUT1
+5V
XTAL_OUT
SDA
SCL
CS
RF_AGC
DC_PWR
AGC-TUN-SUB
FREF-TUN-SUB
AGC-IF-SUB
N-IF-SUB
P-IF-SUB
SCL-MM
SCL-CD-TUN-SUB
SDA-MM
SDA-CD-TUN-SUB
+5V
+5VTUN-SUB
+8V6-SW
7T02 L78M05CDT
7T01 L78M05CDT
IN OUT COM
+5VREG
+5VTUN-SUB
+5VTUN_MPIF
1T03 UV1318ST/AIH-MK3
1T06 UV1318S
1T04 TEQ-716A
IFOUT
NC2
33V
ADC
5V
NC1
SDA
SCL
AS
TU
AGC
IF1
IF2|NC2
VST
VS
MB2
MB1
Used in case of Analog Tuner
7T11 BFS20
7T10 BC847BW
6T02 BAS316
6T03 BAS316
6T01 SML4752-33V
+VTUN
+33VREG
+33VTUN-SUB
AGC-SUB
IF-TER-SUB
3104 313 6080.4
G_15990_006.eps
120506

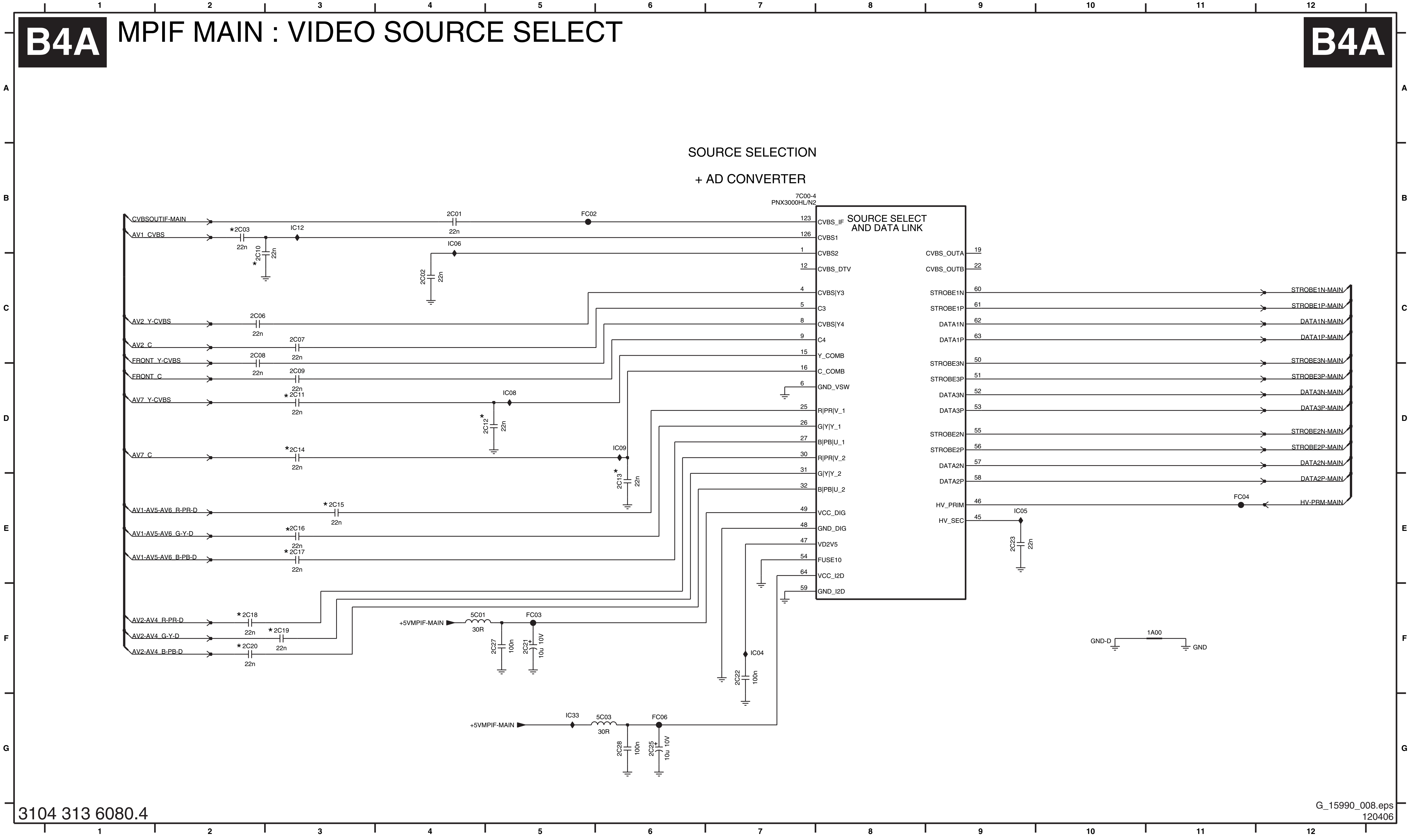
SSB: Tuner Sub Channel Decoder


B3B
TUNER SUB: CHANNEL DECODER
B3B
Used in case of digital tuner
7T14 LD1117DT18
IN OUT COM
+3V3
+1V8DVB-SUB
FT15
2T75 100n
2T76 10u 10V
3T66 22K
IT64
2T89 100n
3T65 33K
3T64 22K
IT65
7T19-1 BC847BPN
9T44 RES
IT62
5T08 600R
FT11
+3V3DVB-SUB
7T19-2 BC847BPN
2T67 RES 10n
2T74 100n
2T17 22u 6.3V
3T85 1K0
IT63
RESET-FE-SUB
N-IF-SUB
P-IF-SUB
AGC-IF-SUB
FREF-TUN-SUB
AGC-TUN-SUB
IT31
3T70 220K
IT33
5T53 1K0
IT45
2T87 100n
7T13 74LVC1G04GW
IT36
3T76 560R
3T80 330R
3T93 100K
IT55
7T18-2 BC847BPN
+3V3DVB-SUB
3T98 10K
2T88 100n
IT35
IT56
3T97 1K0
IT57
7T18-1 BC847BPN
3T96 10K
IT38
3T73 10K
IT37
2T77 100n
2T78 100n
IT40
2T81 100n
3T74 1K0
IT39
+5V
3T71 2K2
3T72 RES 4K7
2T53 100n
3T77 100K RES
3T52 47K
2T86 100n
IT44
2T79 10n
2T80 10n
RES 2T82 39p
1T08 RES 16M
AT40
RES 2T83 39p
IT41
IRQ-FE-SUB
SEL-POD-SUB
CISEL-3V3-SUB
IT46
IT47
IT48
+3V3DVB-SUB
9T35 RES
9T37
IT60
IT61
SDA-DMA-FE
SCL-DMA-FE
SDA-CD-TUN-SUB
SCL-CD-TUN-SUB
3T90 100R
3T92 100R
IT58
IT59
RES 2T91 47p
RES 2T90 47p
RES 9T38
9T36
2T73 100n
2T72 100n
2T71 100n
+3V3DVB-SUB
+1V8DVB-SUB
2T58 100n
2T59 100n
2T60 100n
2T63 100n
2T64 100n
2T65 100n
2T66 100n
7T17 TDA10046AHT
VDD33_ADC
VDDA33_ADC
VDD18_PLL_ADC
VDDA18_PLL
VDDA18_OSC
VDDI18_4
VDDI18_3
VDDI18_2
VDDI18_1
VDDE33_3
VDDE33_2
VDDE33_1
CLR_
AGC_TUN
AGC_IF
VIP
VIM
XIN
XOUT
GPIO0
GPIO1
GPIO2
GPIO3
SADDR0
SADDR1
SDA
SCL
SDA_TUN
SCL_TUN
TEST
I2C
VSSA_ADC
VSSA_PLL_ADC
VSSA_OSC
VSS7
VSS6
VSS5
VSS4
VSS3
VSS2
VSS1
TDO
TDI
TMS
TCK
TRST
ENSERI
JTAG
MPEG-TS (SERIAL)
S_DO
S_OCLK
S_DEN
S_PSYNC
S_UNCOR
MPEG-TS (PARALLEL)
DO0
DO1
DO2
DO3
DO4
DO5
DO6
DO7
OCLK
DEN
PSYNC
UNCOR
SACLK
3T95 RES 10K
9T39
9T40
9T41
IT54
9T53
IT49
IT50
IT51
IT52
IT53
3T82-1 68R
3T82-2 68R
3T82-3 68R
3T82-4 68R
3T86-1 68R
3T86-2 68R
3T86-3 68R
3T86-4 68R
3T91-1 68R
3T91-2 68R
3T91-3 68R
FT16
JTAG-TD-DVBSUB-HDMI
JTAG-TD-DVBMAIN-DVBSUB
JTAG-TMS
JTAG-TCK
JTAG-TRST
FE-SUB-DATA0
FE-SUB-DATA1
FE-SUB-DATA2
FE-SUB-DATA3
FE-SUB-DATA4
FE-SUB-DATA5
FE-SUB-DATA6
FE-SUB-DATA7
FE-SUB-CLK
FE-SUB-VALID
FE-SUB-SOP
3104 313 6080.4
G_15990_007.eps
120406

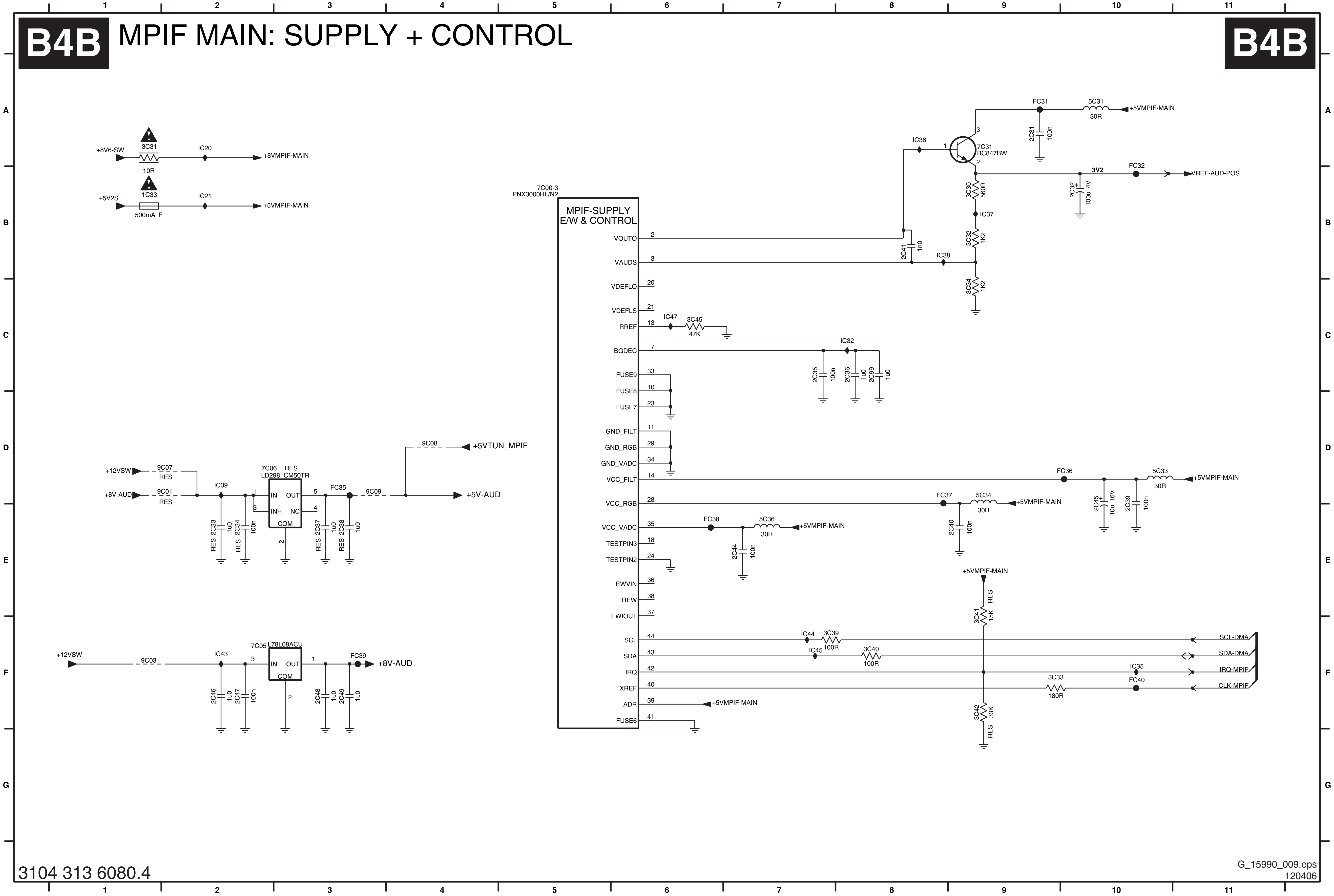
1T08	F8
2T17	C7
2T53	E8
2T58	D11
2T59	D11
2T60	D11
2T63	D11
2T64	D12
2T65	D12
2T66	D12
2T67	C6
2T71	D9
2T72	D8
2T73	D8
2T74	C7
2T75	B5
2T76	B6
2T77	F6
2T78	F6
2T79	F8
2T80	F8
2T81	F6
2T82	F7
2T83	F8
2T86	E8
2T87	E5
2T88	G4
2T89	B7
2T90	H8
2T91	H7
3T52	E8
3T64	A7
3T65	B7
3T66	B7
3T70	E5
3T71	E7
3T72	E7
3T73	E7
3T74	F7
3T76	F5
3T77	F7
3T80	F5
3T82-1	G11
3T82-2	G12
3T82-3	G11
3T82-4	G12
3T85	D6
3T86-1	G11
3T86-2	G12
3T86-3	G11
3T86-4	G12
3T90	G7
3T91-1	G11
3T91-2	H12
3T91-3	H11
3T92	H7
3T93	F2
3T95	E11
3T96	G3
3T97	G3
3T98	G4
5T08	C7
5T53	E4
7T13	E5
7T14	B5
7T17	E9
7T18-1	G4
7T18-2	F3
7T19-1	B7
7T19-2	C5
9T35	G8
9T36	H8
9T37	G8
9T38	H8
9T39	E11
9T40	E12
9T41	E11
9T44	C5
9T53	F11
AT40	F8
FT11	C7
FT15	B6
FT16	H11
IT31	E3
IT33	D5
IT35	G4
IT36	E5
IT37	E7
IT38	E6
IT39	E8
IT40	F6
IT41	F8
IT44	E8
IT45	E5
IT46	G8
IT47	G8
IT48	G8
IT49	F11
IT50	F11
IT51	F11
IT52	F11
IT53	G11
IT54	F11
IT55	F2
IT56	G3
IT57	G4
IT58	G7
IT59	G8
IT60	G8
IT61	G8
IT62	C6
IT63	D6
IT64	B7
IT65	B7

SSB: MPIF Main: Video Source Select

1A00 F11
2C01 B4
2C02 C4
2C03 B2
2C06 C2
2C07 C3
2C08 C2
2C09 D3
2C10 C2
2C11 D3
2C12 D5
2C13 E6
2C14 D3
2C15 E3
2C16 E3
2C17 E3
2C18 F2
2C19 F3
2C20 F2
2C21 F5
2C22 F7
2C23 E9
2C25 G6
2C27 F5
2C28 G6
5C01 F4
5C03 G6
7C00-4 B8
FC02 B5
FC03 F5
FC04 E11
FC06 G6
IC04 F7
IC05 E9
IC06 B4
IC08 D5
IC09 D6
IC12 B3
IC33 G5


B4A
MPIF MAIN : VIDEO SOURCE SELECT
B4A
SOURCE SELECTION
+ AD CONVERTER
7C00-4
PNX3000HL/N2
SOURCE SELECT
AND DATA LINK
CVBSOUTIF-MAIN
AV1_CVBS
AV2_Y-CVBS
AV2_C
FRONT_Y-CVBS
FRONT_C
AV7_Y-CVBS
AV7_C
AV1-AV5-AV6_R-PR-D
AV1-AV5-AV6_G-Y-D
AV1-AV5-AV6_B-PB-D
AV2-AV4_R-PR-D
AV2-AV4_G-Y-D
AV2-AV4_B-PB-D
2C01 22n
FC02
2C03 22n
2C10 22n
IC12
IC06
2C02 22n
2C06 22n
2C07 22n
2C08 22n
2C09 22n
2C11 22n
IC08
2C12 22n
2C14 22n
IC09
2C13 22n
2C15 22n
2C16 22n
2C17 22n
2C18 22n
2C19 22n
2C20 22n
+5VMPIF-MAIN
5C01 30R
FC03
2C27 100n
2C21 10u 10V
IC04
2C22 100n
+5VMPIF-MAIN
IC33
5C03 30R
FC06
2C28 100n
2C25 10u 10V
123 CVBS_IF
126 CVBS1
1 CVBS2
12 CVBS_DTV
4 CVBS|Y3
5 C3
8 CVBS|Y4
9 C4
15 Y_COMB
16 C_COMB
6 GND_VSW
25 R|PR|V_1
26 G|Y|Y_1
27 B|PB|U_1
30 R|PR|V_2
31 G|Y|Y_2
32 B|PB|U_2
49 VCC_DIG
48 GND_DIG
47 VD2V5
54 FUSE10
64 VCC_I2D
59 GND_I2D
CVBS_OUTA 19
CVBS_OUTB 22
STROBE1N 60
STROBE1P 61
DATA1N 62
DATA1P 63
STROBE3N 50
STROBE3P 51
DATA3N 52
DATA3P 53
STROBE2N 55
STROBE2P 56
DATA2N 57
DATA2P 58
HV_PRIM 46
HV_SEC 45
IC05
2C23 22n
FC04
STROBE1N-MAIN
STROBE1P-MAIN
DATA1N-MAIN
DATA1P-MAIN
STROBE3N-MAIN
STROBE3P-MAIN
DATA3N-MAIN
DATA3P-MAIN
STROBE2N-MAIN
STROBE2P-MAIN
DATA2N-MAIN
DATA2P-MAIN
HV-PRM-MAIN
GND-D
1A00
GND
3104 313 6080.4
G_15990_008.eps
120406

SSB: MPIF Main: Supply & Control


B4B
MPIF MAIN: SUPPLY + CONTROL
B4B
+8V6-SW
3C31
10R
IC20
+8VMPIF-MAIN
+5V2S
1C33
500mA F
IC21
+5VMPIF-MAIN
7C00-3
PNX3000HL/N2
MPIF-SUPPLY
E/W & CONTROL
VOUTO
VAUDS
VDEFLO
VDEFLS
RREF
BGDEC
FUSE9
FUSE8
FUSE7
GND_FILT
GND_RGB
GND_VADC
VCC_FILT
VCC_RGB
VCC_VADC
TESTPIN3
TESTPIN2
EWVIN
REW
EWIOUT
SCL
SDA
IRQ
XREF
ADR
FUSE6
FC31
5C31
30R
2C31
100n
IC36
7C31
BC847BW
3V2
FC32
VREF-AUD-POS
2C32
100u 4V
3C30
560R
IC37
3C32
1K2
2C41
1n0
IC38
3C34
1K2
IC47
3C45
47K
IC32
2C35
100n
2C36
1u0
2C99
1u0
9C08
+5VTUN_MPIF
+12VSW
9C07
RES
+8V-AUD
9C01
RES
IC39
7C06 RES
LD2981CM50TR
IN
OUT
INH
NC
COM
FC35
9C09
+5V-AUD
2C33
2C34
2C37
2C38
FC36
5C33
2C45
10u 16V
2C39
100n
FC37
5C34
2C40
FC38
5C36
2C44
+5VMPIF-MAIN
3C41
15K
RES
IC44
3C39
100R
IC45
3C40
100R
SCL-DMA
SDA-DMA
IRQ-MPIF
CLK-MPIF
IC35
3C33
180R
FC40
3C42
33K
+12VSW
9C03
IC43
7C05
L78L08ACU
FC39
+8V-AUD
2C46
2C47
2C48
2C49
3104 313 6080.4
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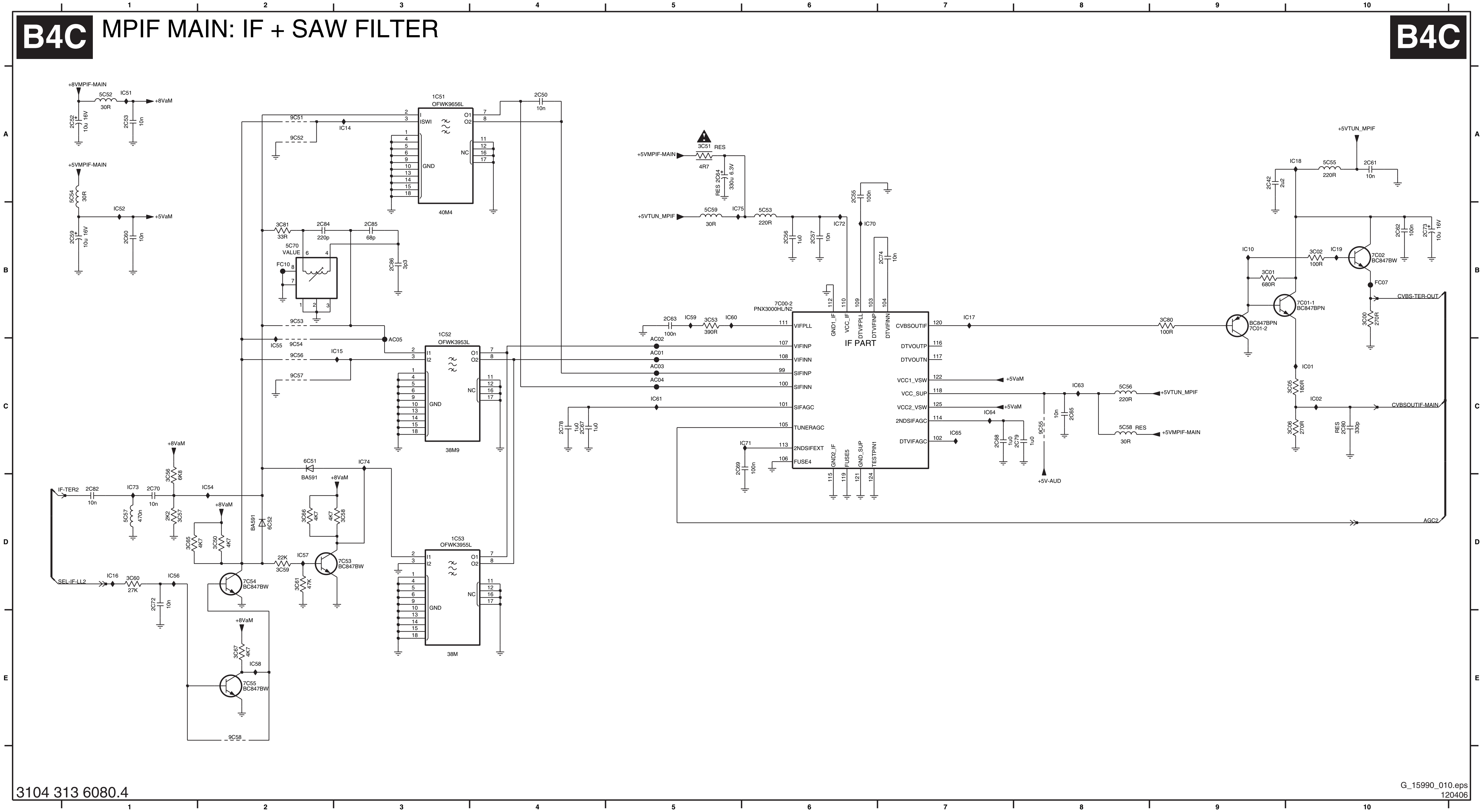
120406

1C33	B1
2C31	A9
2C32	B10
2C33	E2
2C34	E2
2C35	C7
2C36	C8
2C37	E3
2C38	E3
2C39	D10
2C40	E9
2C41	B8
2C44	E7
2C45	D10
2C46	F2
2C47	F2
2C48	F3
2C49	F3
2C99	C8
3C30	B9
3C31	A1
3C32	B9
3C33	F9
3C34	C9
3C39	F7
3C40	F8
3C41	E9
3C42	F9
3C45	C6
5C31	A10
5C33	D10
5C34	D9
5C36	E7
7C00-3	B5
7C05	F2
7C06	D2
7C31	A9
9C01	D2
9C03	F1
9C07	D2
9C08	D4
9C09	D3
FC31	A9
FC32	B10
FC35	D3
FC36	D10
FC37	D8
FC38	E6
FC39	F3
FC40	F10
IC20	A2
IC21	B2
IC32	C8
IC35	F10
IC36	A8
IC37	B9
IC38	B8
IC39	D2
IC43	F2
IC44	F7
IC45	F7
IC47	C6

SSB: MPIF Main: IF & SAW Filter

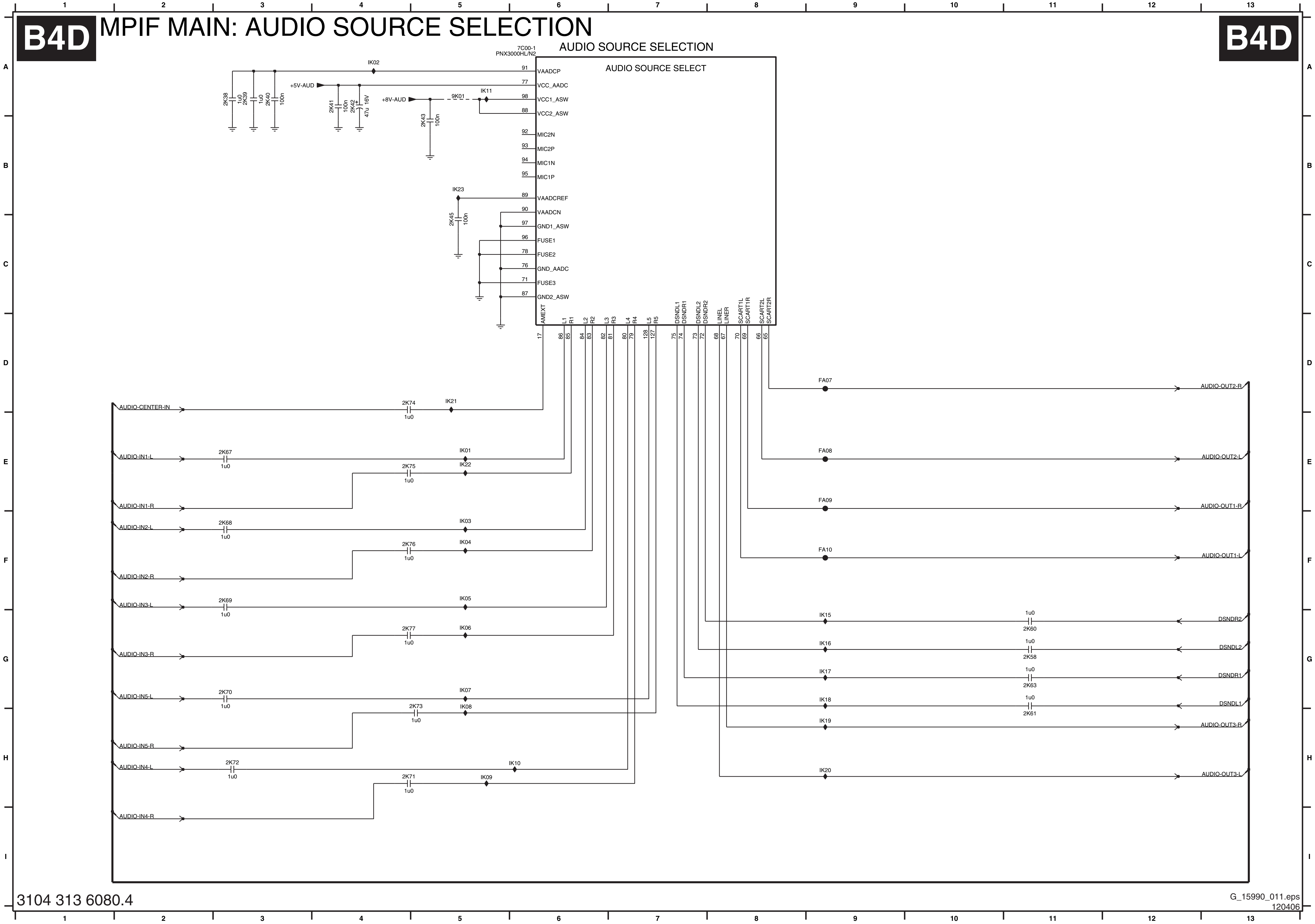
1C51 A3
1C52 B3
1C53 D3
2C42 A9
2C50 A4
2C52 A1
2C53 A1
2C55 A6
2C56 B6
2C57 B6
2C59 B1
2C60 B1
2C61 A10
2C62 B10
2C63 B5
2C64 A5
2C65 C8
2C67 C4
2C68 C7
2C69 C5
2C70 D1
2C72 D1
2C73 B10
2C74 B7
2C78 C4
2C79 C8
2C80 C10
2C82 D1
2C84 B2
2C85 B3
2C86 B3
3C00 B10
3C01 B9
3C02 B10
3C05 C10
3C06 C10
3C50 D2
3C51 A5
3C53 B5
3C56 D1
3C57 D1
3C58 D3
3C59 D2
3C60 D1
3C61 D2
3C65 D1
3C66 D2
3C67 E2
3C80 B9
3C81 B2
5C52 A1
5C53 B6
5C54 A1
5C55 A10
5C56 C8
5C57 D1
5C58 C8
5C59 B5
5C70 B2
6C51 C2
6C52 D2
7C00-2 B6
7C01-1 B10
7C01-2 B9
7C02 B10
7C53 D3
7C54 D2
7C55 E2
9C51 A2
9C52 A2
9C53 B2
9C54 C2
9C55 C8
9C56 C2
9C57 C2
9C58 E2
AC01 C5
AC02 C5
AC03 C5
AC04 C5
AC05 C3
FC07 B10
FC10 B2
IC01 C10
IC02 C10
IC10 B9
IC14 A3
IC15 C3
IC16 D1
IC17 B7
IC18 A10
IC19 B10
IC51 A1
IC52 B1
IC54 D2
IC55 C2
IC56 D1
IC57 D2
IC58 E2
IC59 B5
IC60 B5
IC61 C5
IC63 C8
IC64 C7
IC65 C7
IC70 B6
IC71 C6
IC72 B6
IC73 D1
IC74 C3
IC75 B5

B4C MPIF MAIN: IF + SAW FILTER



B4C
+8VMPIF-MAIN
5C52
30R
IC51
+8VaM
2C52 10u 16V
2C53 10n
+5VMPIF-MAIN
5C54 30R
IC52
+5VaM
2C59 10u 16V
2C60 10n
1C51
OFWK9656L
ISWI
O1
O2
GND
NC
40M4
9C51
9C52
IC14
2C50 10n
3C81 33R
2C84 220p
2C85 68p
5C70 VALUE
FC10
2C86 3p3
9C53
AC05
9C54
IC55
9C56
IC15
9C57
1C52
OFWK3953L
I1
I2
38M9
+8VaM
3C56 6K8
IF-TER2
2C82 10n
IC73
2C70 10n
IC54
5C57 470n
2K2 3C57
3C65 4K7
3C50 4K7
BA591 6C52
6C51 BA591
IC74
3C66 4K7
3C58 4K7
22K 3C59
IC57
3C61 47K
7C53 BC847BW
7C54 BC847BW
SEL-IF-LL2
IC16
3C60 27K
IC56
2C72 10n
1C53
OFWK3955L
38M
3C67 4K7
IC58
7C55 BC847BW
9C58
+5VMPIF-MAIN
3C51 RES 4R7
RES 2C64 330u 6.3V
+5VTUN_MPIF
5C59 30R
IC75
5C53 220R
IC72
IC70
2C55 100n
2C56 1u0
2C57 10n
2C74 10n
7C00-2
PNX3000HL/N2
2C63 100n
IC59
3C53 390R
IC60
AC02
AC01
AC03
AC04
IC61
2C78 1u0
2C67 1u0
IC71
2C69 100n
VIFPLL
VIFINP
VIFINN
SIFINP
SIFINN
SIFAGC
TUNERAGC
2NDSIFEXT
FUSE4
GND1_IF
VCC_IF
DTVIFPLL
DTVIFINP
DTVIFINN
IF PART
CVBSOUTIF
DTVOUTP
DTVOUTN
VCC1_VSW
VCC_SUP
VCC2_VSW
2NDSIFAGC
DTVIFAGC
GND2_IF
FUSE5
GND_SUP
TESTPIN1
IC17
+5VaM
IC63
5C56 220R
+5VTUN_MPIF
IC64
+5VaM
9C55
2C65 10n
2C68 1u0
2C79 1u0
IC65
5C58 RES 30R
+5VMPIF-MAIN
+5V-AUD
AGC2
3C80 100R
BC847BPN 7C01-2
3C01 680R
IC10
3C02 100R
IC19
7C02 BC847BW
7C01-1 BC847BPN
FC07
3C00 270R
CVBS-TER-OUT
IC01
3C05 180R
IC02
CVBSOUTIF-MAIN
3C06 270R
RES 2C80 330p
+5VTUN_MPIF
IC18
5C55 220R
2C61 10n
2C42 2u2
2C62 100n
2C73 10u 16V
3104 313 6080.4
G_15990_010.eps
120406

SSB: MPIF Main: Audio Source Selection


B4D
MPIF MAIN: AUDIO SOURCE SELECTION
B4D
AUDIO SOURCE SELECTION
7C00-1
PNX3000HL/N2
AUDIO SOURCE SELECT
IK02
91 VAADCP
+5V-AUD
77 VCC_AADC
+8V-AUD
9K01
IK11
98 VCC1_ASW
88 VCC2_ASW
2K38 1u0
2K39 1u0
2K40 100n
2K41 100n
2K42 47u 16V
2K43 100n
92 MIC2N
93 MIC2P
94 MIC1N
95 MIC1P
IK23
89 VAADCREF
2K45 100n
90 VAADCN
97 GND1_ASW
96 FUSE1
78 FUSE2
76 GND_AADC
71 FUSE3
87 GND2_ASW
17 AMEXT
86 L1
85 R1
84 L2
83 R2
82 L3
81 R3
80 L4
79 R4
128 L5
127 R5
75 DSNDL1
74 DSNDR1
73 DSNDL2
72 DSNDR2
68 LINEL
67 LINER
70 SCART1L
69 SCART1R
66 SCART2L
65 SCART2R
AUDIO-CENTER-IN
2K74 1u0
IK21
AUDIO-IN1-L
2K67 1u0
IK01
2K75 1u0
IK22
AUDIO-IN1-R
AUDIO-IN2-L
2K68 1u0
IK03
2K76 1u0
IK04
AUDIO-IN2-R
AUDIO-IN3-L
2K69 1u0
IK05
2K77 1u0
IK06
AUDIO-IN3-R
AUDIO-IN5-L
2K70 1u0
IK07
2K73 1u0
IK08
AUDIO-IN5-R
AUDIO-IN4-L
2K72 1u0
IK10
2K71 1u0
IK09
AUDIO-IN4-R
FA07
AUDIO-OUT2-R
FA08
AUDIO-OUT2-L
FA09
AUDIO-OUT1-R
FA10
AUDIO-OUT1-L
IK15
1u0 2K60
DSNDR2
IK16
1u0 2K58
DSNDL2
IK17
1u0 2K63
DSNDR1
IK18
1u0 2K61
DSNDL1
IK19
AUDIO-OUT3-R
IK20
AUDIO-OUT3-L
1 2 3 4 5 6 7 8 9 10 11 12 13
A B C D E F G H I
3104 313 6080.4
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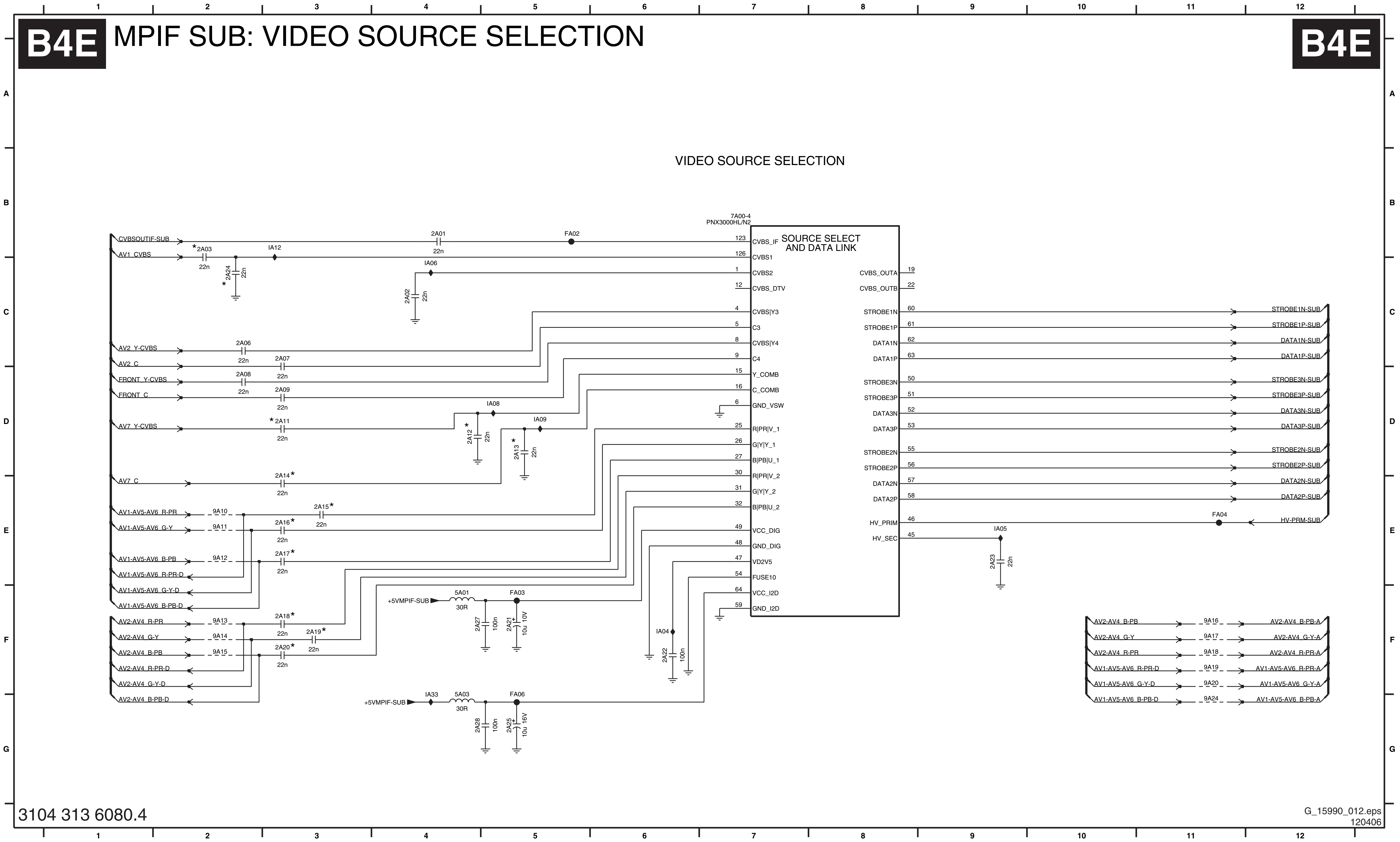
2K38	A3
2K39	A3
2K40	A3
2K41	A4
2K42	A4
2K43	B5
2K45	C5
2K58	G11
2K60	G11
2K61	H11
2K63	G11
2K67	E3
2K68	F3
2K69	F3
2K70	G3
2K71	H4
2K72	H3
2K73	G5
2K74	D4
2K75	E4
2K76	F4
2K77	G4
7C00-1	A6
9K01	A5
FA07	D9
FA08	E9
FA09	E9
FA10	F9
IK01	E5
IK02	A4
IK03	F5
IK04	F5
IK05	F5
IK06	G5
IK07	G5
IK08	G5
IK09	H5
IK10	H6
IK11	A5
IK15	G9
IK16	G9
IK17	G9
IK18	G9
IK19	H9
IK20	H9
IK21	D5
IK22	E5
IK23	B5

SSB: MPIF Sub: Video Source Selection


B4E
MPIF SUB: VIDEO SOURCE SELECTION
B4E
VIDEO SOURCE SELECTION
7A00-4
PNX3000HL/N2
SOURCE SELECT
AND DATA LINK
CVBS_IF
CVBS1
CVBS2
CVBS_DTV
CVBS|Y3
C3
CVBS|Y4
C4
Y_COMB
C_COMB
GND_VSW
R|PR|V_1
G|Y|Y_1
B|PB|U_1
R|PR|V_2
G|Y|Y_2
B|PB|U_2
VCC_DIG
GND_DIG
VD2V5
FUSE10
VCC_I2D
GND_I2D
CVBS_OUTA
CVBS_OUTB
STROBE1N
STROBE1P
DATA1N
DATA1P
STROBE3N
STROBE3P
DATA3N
DATA3P
STROBE2N
STROBE2P
DATA2N
DATA2P
HV_PRIM
HV_SEC
CVBSOUTIF-SUB
AV1_CVBS
AV2_Y-CVBS
AV2_C
FRONT_Y-CVBS
FRONT_C
AV7_Y-CVBS
AV7_C
AV1-AV5-AV6_R-PR
AV1-AV5-AV6_G-Y
AV1-AV5-AV6_B-PB
AV1-AV5-AV6_R-PR-D
AV1-AV5-AV6_G-Y-D
AV1-AV5-AV6_B-PB-D
AV2-AV4_R-PR
AV2-AV4_G-Y
AV2-AV4_B-PB
AV2-AV4_R-PR-D
AV2-AV4_G-Y-D
AV2-AV4_B-PB-D
STROBE1N-SUB
STROBE1P-SUB
DATA1N-SUB
DATA1P-SUB
STROBE3N-SUB
STROBE3P-SUB
DATA3N-SUB
DATA3P-SUB
STROBE2N-SUB
STROBE2P-SUB
DATA2N-SUB
DATA2P-SUB
HV-PRM-SUB
AV2-AV4_B-PB-A
AV2-AV4_G-Y-A
AV2-AV4_R-PR-A
AV1-AV5-AV6_R-PR-A
AV1-AV5-AV6_G-Y-A
AV1-AV5-AV6_B-PB-A
+5VMPIF-SUB
5A01 30R
5A03 30R
FA02
FA03
FA04
FA06
IA04
IA05
IA06
IA08
IA09
IA12
IA33
2A01 22n
2A02 22n
2A03 22n
2A06 22n
2A07 22n
2A08 22n
2A09 22n
2A11 22n
2A12 22n
2A13 22n
2A14 22n
2A15 22n
2A16 22n
2A17 22n
2A18 22n
2A19 22n
2A20 22n
2A21 10u 10V
2A22 100n
2A23 22n
2A24 22n
2A25 10u 16V
2A27 100n
2A28 100n
9A10
9A11
9A12
9A13
9A14
9A15
9A16
9A17
9A18
9A19
9A20
9A24
3104 313 6080.4
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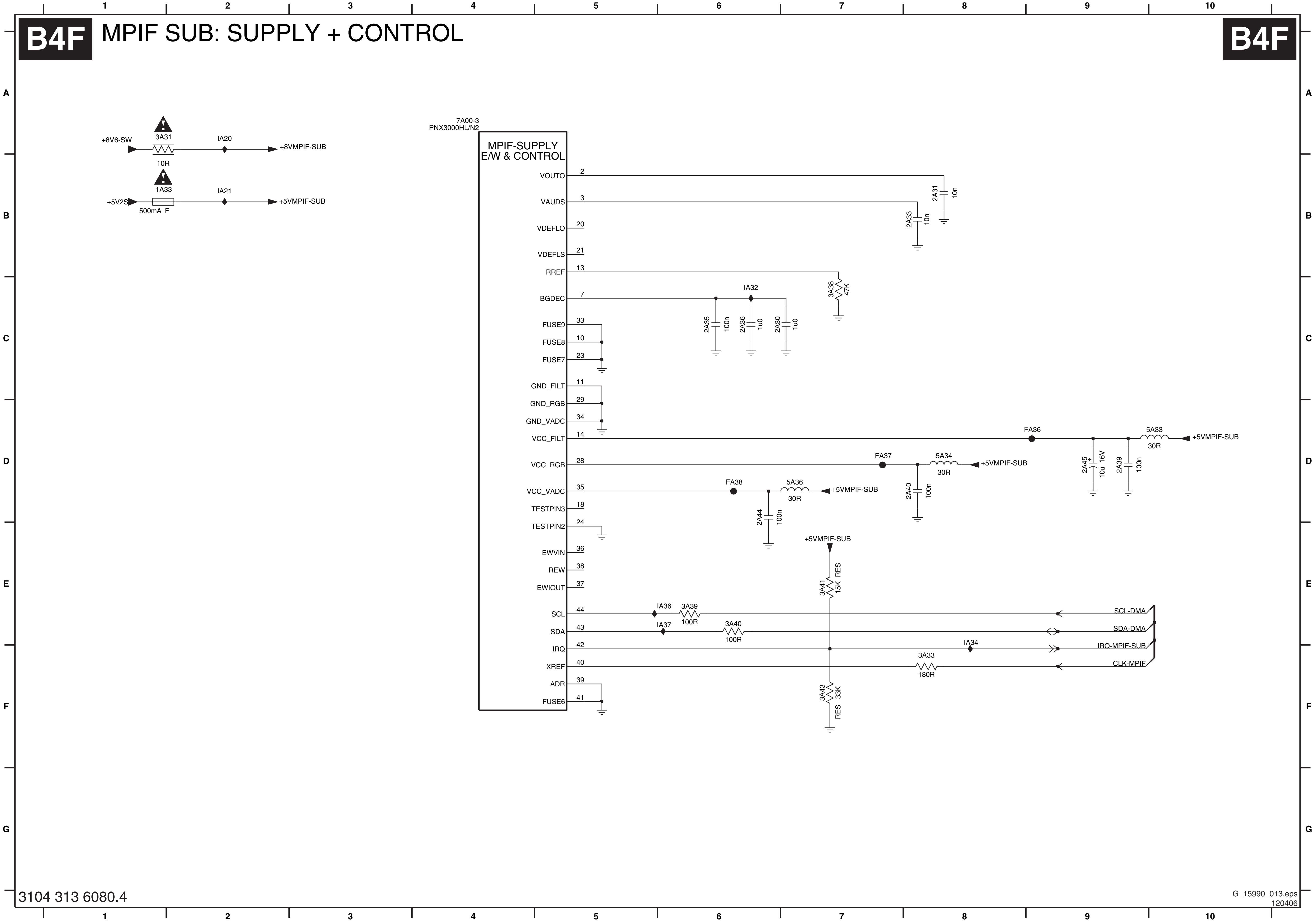
2A01	B4
2A02	C4
2A03	B2
2A06	C2
2A07	C3
2A08	D2
2A09	D3
2A11	D3
2A12	D4
2A13	D5
2A14	E3
2A15	E3
2A16	E3
2A17	E3
2A18	F3
2A19	F3
2A20	F3
2A21	F5
2A22	F6
2A23	E9
2A24	C2
2A25	G5
2A27	F4
2A28	G4
5A01	F4
5A03	G4
7A00-4	B7
9A10	E2
9A11	E2
9A12	E2
9A13	F2
9A14	F2
9A15	F2
9A16	F11
9A17	F11
9A18	F11
9A19	F11
9A20	F11
9A24	G11
FA02	B5
FA03	F5
FA04	E11
FA06	G5
IA04	F6
IA05	E9
IA06	C4
IA08	D5
IA09	D5
IA12	B3
IA33	F4

SSB: MPIF Sub: Supply & Control


B4F
MPIF SUB: SUPPLY + CONTROL
B4F
+8V6-SW
3A31
10R
IA20
+8VMPIF-SUB
1A33
500mA F
+5V2S
IA21
+5VMPIF-SUB
7A00-3
PNX3000HL/N2
MPIF-SUPPLY
E/W & CONTROL
VOUTO 2
VAUDS 3
VDEFLO 20
VDEFLS 21
RREF 13
BGDEC 7
FUSE9 33
FUSE8 10
FUSE7 23
GND_FILT 11
GND_RGB 29
GND_VADC 34
VCC_FILT 14
VCC_RGB 28
VCC_VADC 35
TESTPIN3 18
TESTPIN2 24
EWVIN 36
REW 38
EWIOUT 37
SCL 44
SDA 43
IRQ 42
XREF 40
ADR 39
FUSE6 41
2A31 10n
2A33 10n
3A38 47K
IA32
2A35 100n
2A36 1u0
2A30 1u0
FA36
5A33 30R
2A45 10u 16V
2A39 100n
FA37
5A34 30R
2A40 100n
FA38
5A36 30R
2A44 100n
3A41 15K RES
IA36
3A39 100R
IA37
3A40 100R
IA34
3A33 180R
3A43 33K RES
SCL-DMA
SDA-DMA
IRQ-MPIF-SUB
CLK-MPIF
1 2 3 4 5 6 7 8 9 10
A B C D E F G
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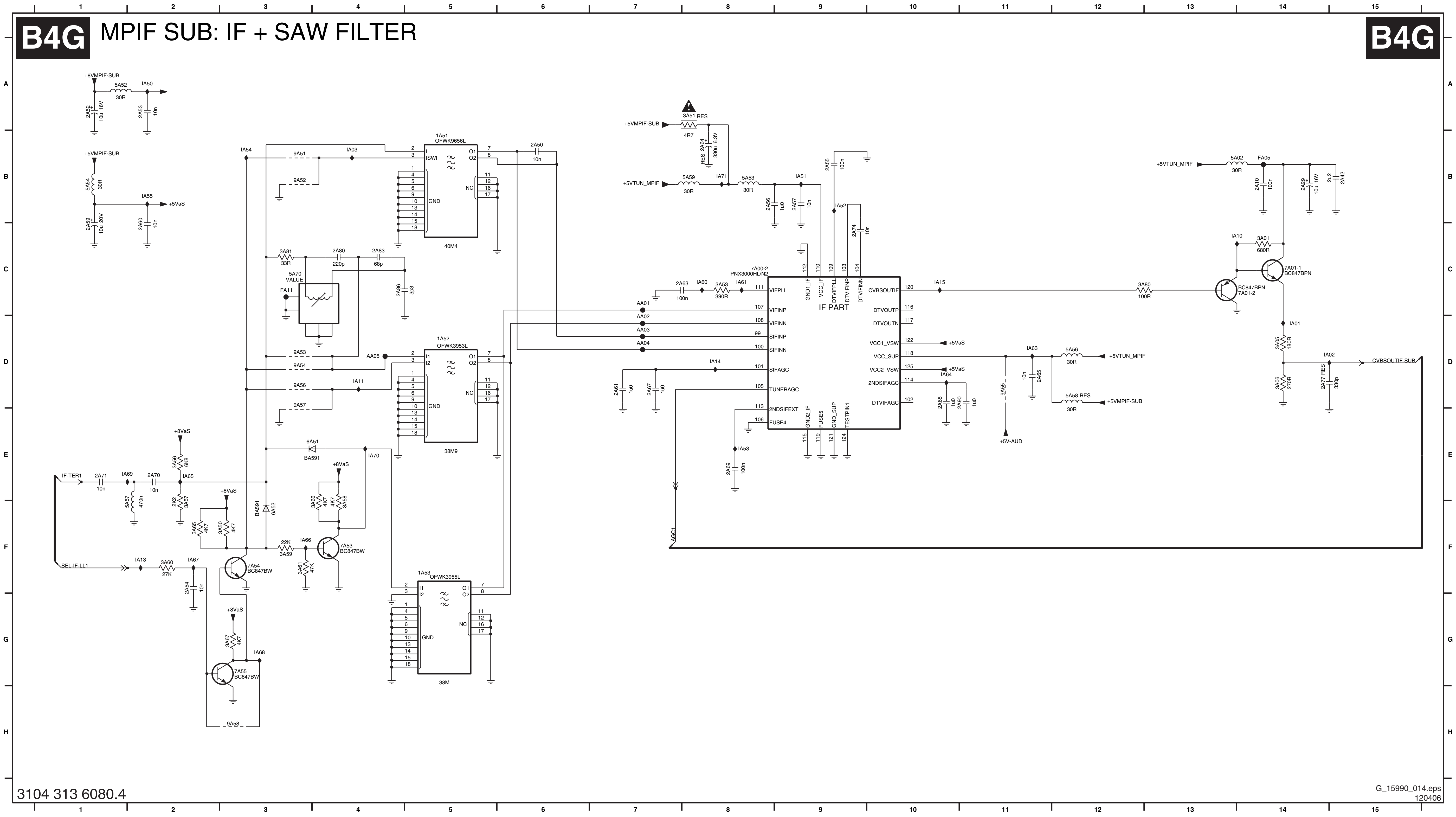
1A33	B1
2A30	C6
2A31	B8
2A33	B8
2A35	C6
2A36	C6
2A39	D9
2A40	D8
2A44	D6
2A45	D9
3A31	A1
3A33	F8
3A38	C7
3A39	E6
3A40	E6
3A41	E7
3A43	F7
5A33	D10
5A34	D8
5A36	D7
7A00-3	A4
FA36	D9
FA37	D7
FA38	D6
IA20	A2
IA21	B2
IA32	C6
IA34	E8
IA36	E6
IA37	E6

SSB: MPIF Sub: IF & SAW Filter

1A51 B5
1A52 D5
1A53 F5
2A10 B14
2A29 B14
2A42 B15
2A50 B6
2A52 A1
2A53 A2
2A54 F2
2A55 B9
2A56 B8
2A57 B9
2A59 C1
2A60 C2
2A61 D7
2A63 C8
2A64 B8
2A65 D11
2A67 D7
2A68 D10
2A69 E8
2A70 E2
2A71 E1
2A74 C9
2A77 D14
2A80 C4
2A83 C4
2A86 C4
2A90 D11
3A01 C14
3A05 D14
3A06 D14
3A50 F3
3A51 A8
3A53 C8
3A56 E2
3A57 F2
3A58 F4
3A59 F3
3A60 F2
3A61 F3
3A65 F2
3A66 F4
3A67 G3
3A80 C13
3A81 C3
5A02 B14
5A52 A1
5A53 B8
5A54 B1
5A56 D12
5A57 F2
5A58 D12
5A59 B8
5A70 C3
6A51 E4
6A52 F3
7A00-2 C8
7A01-1 C14
7A01-2 C14
7A53 F4
7A54 F3
7A55 G3
9A51 B3
9A52 B3
9A53 D3
9A54 D3
9A55 D11
9A56 D3
9A57 D3
9A58 H3
AA01 C7
AA02 D7
AA03 D7
AA04 D7
AA05 D4
FA05 B14
FA11 C3
IA01 D14
IA02 D15
IA03 B4
IA10 C14
IA11 D4
IA13 F2
IA14 D8
IA15 C10
IA50 A2
IA51 B9
IA52 B9
IA53 E8
IA54 B3
IA55 B2
IA60 C8
IA61 C8
IA63 D11
IA64 D10
IA65 E2
IA66 F3
IA67 F2
IA68 G3
IA69 E2
IA70 E4
IA71 B8

B4G MPIF SUB: IF + SAW FILTER



B4G
+8VMPIF-SUB
5A52
30R
IA50
2A52 10u 16V
2A53 10n
+5VMPIF-SUB
5A54 30R
IA55
+5VaS
2A59 10u 20V
2A60 10n
IA54
9A51
IA03
9A52
1A51
OFWK9656L
ISWI
O1
O2
NC
GND
40M4
2A50
10n
3A81
33R
2A80
220p
2A83
68p
5A70
VALUE
FA11
2A86
3p3
1A52
OFWK3953L
38M9
AA05
9A53
9A54
9A56
IA11
9A57
6A51
BA591
IA70
+8VaS
3A56 6K8
IF-TER1
2A71
10n
IA69
2A70
10n
IA65
5A57 470n
2K2 3A57
3A65 4K7
3A50 4K7
BA591 6A52
3A66 4K7
4K7 3A58
22K
3A59
IA66
7A53
BC847BW
7A54
BC847BW
SEL-IF-LL1
IA13
3A60
27K
IA67
2A54 10n
3A61 47K
1A53
OFWK3955L
38M
+8VaS
3A67 4K7
IA68
7A55
BC847BW
9A58
3A51 RES
4R7
RES 2A64 330u 6.3V
+5VTUN_MPIF
5A59
30R
IA71
5A53
30R
IA51
2A56 1u0
2A57 10n
2A55 100n
IA52
2A74 10n
7A00-2
PNX3000HL/N2
2A63
100n
IA60
3A53
390R
IA61
VIFPLL
VIFINP
VIFINN
SIFINP
SIFINN
SIFAGC
TUNERAGC
2NDSIFEXT
FUSE4
GND1_IF
VCC_IF
DTVIFPLL
DTVIFINP
DTVIFINN
IF PART
CVBSOUTIF
DTVOUTP
DTVOUTN
VCC1_VSW
VCC_SUP
VCC2_VSW
2NDSIFAGC
DTVIFAGC
GND2_IF
FUSE5
GND_SUP
TESTPIN1
AA01
AA02
AA03
AA04
IA14
2A61 1u0
2A67 1u0
IA53
2A69 100n
AGC1
IA15
IA64
2A68 1u0
2A90 1u0
9A55
+5V-AUD
IA63
10n 2A65
5A56
30R
5A58 RES
30R
+5VMPIF-SUB
3A80
100R
BC847BPN
7A01-2
7A01-1
BC847BPN
IA10
3A01
680R
5A02
30R
FA05
2A10 100n
2A29 10u 16V
2u2 2A42
IA01
3A05 180R
3A06 270R
IA02
2A77 RES 330p
CVBSOUTIF-SUB
3104 313 6080.4
G_15990_014.eps
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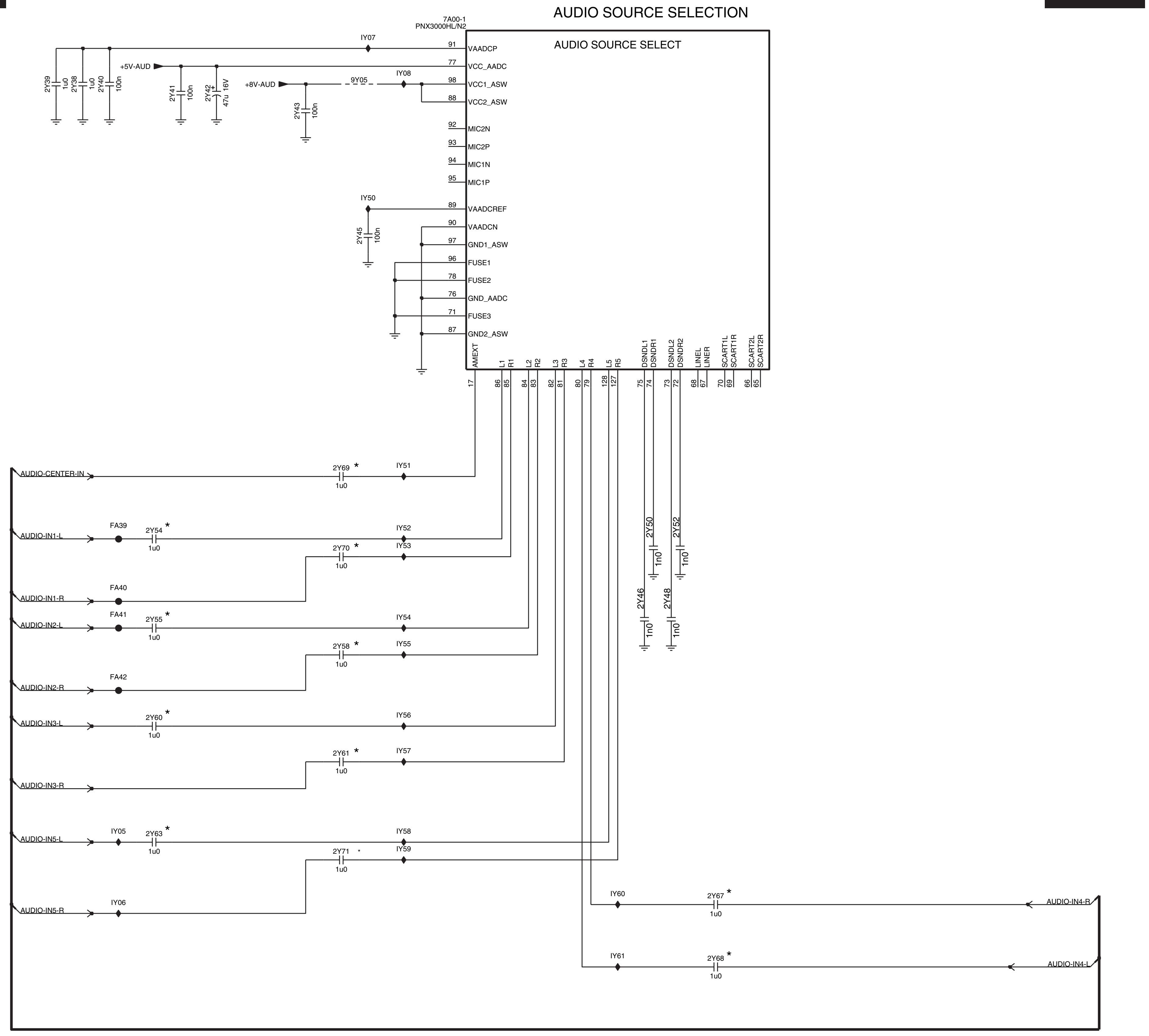
SSB: MPIF Sub: Audio Source Selection

B4H MPIF SUB: AUDIO SOURCE SELECTION B4H


AUDIO SOURCE SELECTION
7A00-1
PNX3000HL/N2
AUDIO SOURCE SELECT
IY07
+5V-AUD
+8V-AUD
9Y05
IY08
2Y39 1u0
2Y38 1u0
2Y40 100n
2Y41 100n
2Y42 47u 16V
2Y43 100n
91 VAADCP
77 VCC_AADC
98 VCC1_ASW
88 VCC2_ASW
92 MIC2N
93 MIC2P
94 MIC1N
95 MIC1P
IY50
2Y45 100n
89 VAADCREF
90 VAADCN
97 GND1_ASW
96 FUSE1
78 FUSE2
76 GND_AADC
71 FUSE3
87 GND2_ASW
17 AMEXT
86 L1
85 R1
84 L2
83 R2
82 L3
81 R3
80 L4
79 R4
128 L5
127 R5
75 DSNDL1
74 DSNDR1
73 DSNDL2
72 DSNDR2
68 LINEL
67 LINER
70 SCART1L
69 SCART1R
66 SCART2L
65 SCART2R
2Y50 1n0
2Y52 1n0
2Y46 1n0
2Y48 1n0
AUDIO-CENTER-IN
2Y69 * 1u0
IY51
AUDIO-IN1-L
FA39
2Y54 * 1u0
IY52
2Y70 * 1u0
IY53
AUDIO-IN1-R
FA40
AUDIO-IN2-L
FA41
2Y55 * 1u0
IY54
2Y58 * 1u0
IY55
AUDIO-IN2-R
FA42
AUDIO-IN3-L
2Y60 * 1u0
IY56
2Y61 * 1u0
IY57
AUDIO-IN3-R
AUDIO-IN5-L
IY05
2Y63 * 1u0
IY58
2Y71 * 1u0
IY59
AUDIO-IN5-R
IY06
IY60
2Y67 * 1u0
AUDIO-IN4-R
IY61
2Y68 * 1u0
AUDIO-IN4-L

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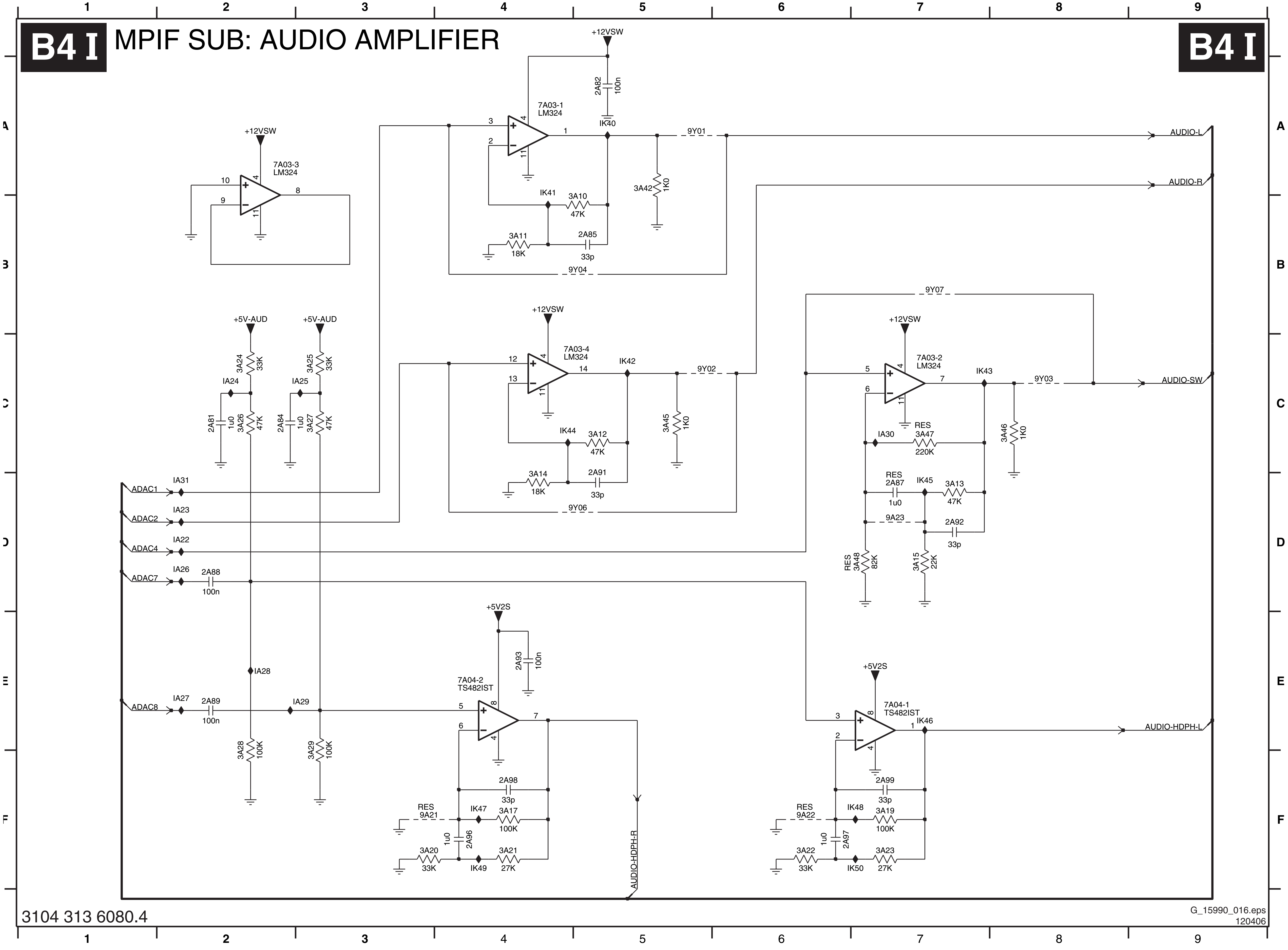
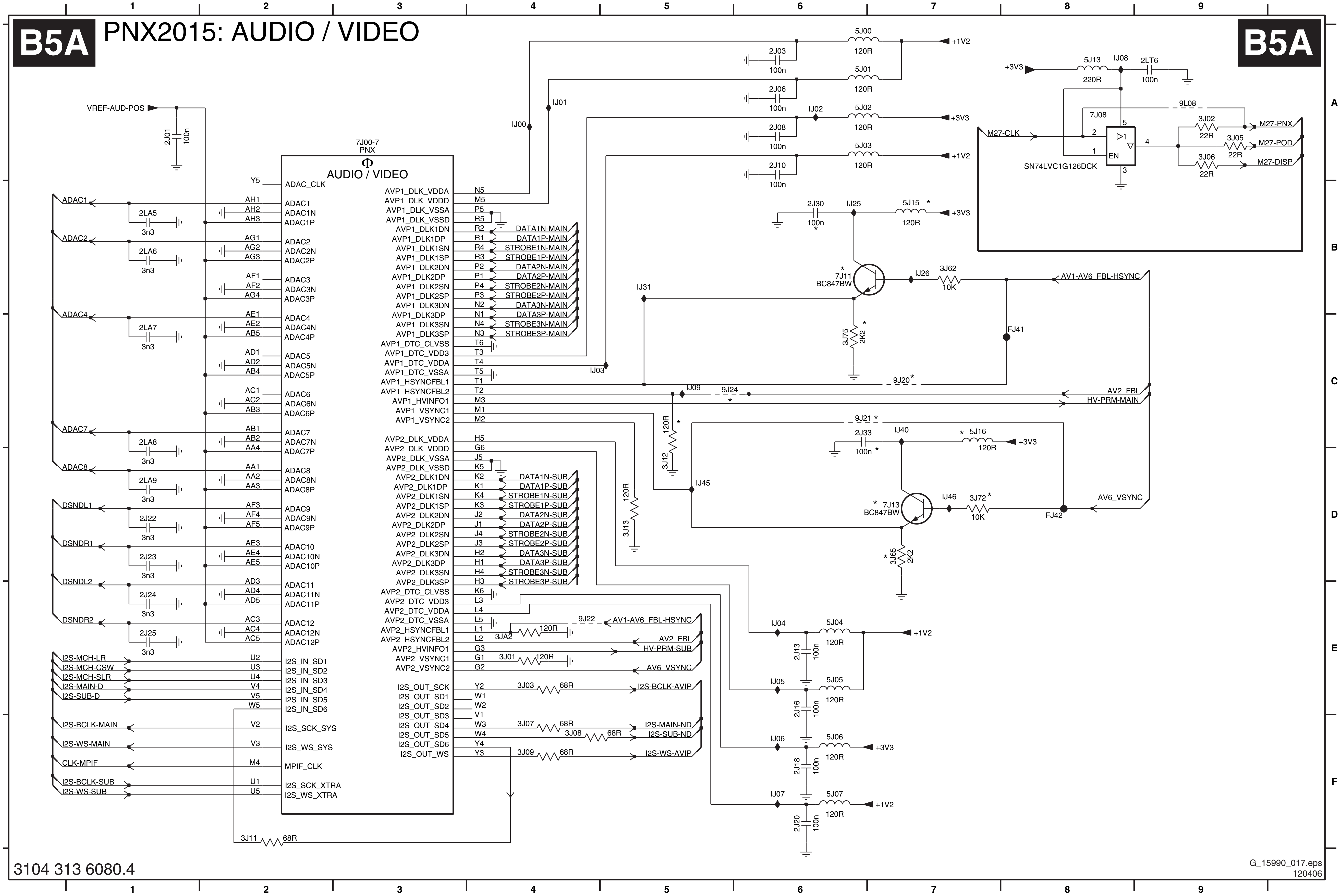
2Y38	B2
2Y39	B2
2Y40	B2
2Y41	B3
2Y42	B3
2Y43	B4
2Y45	C4
2Y46	F6
2Y48	F7
2Y50	E7
2Y52	E7
2Y54	E3
2Y55	F3
2Y58	F4
2Y60	G3
2Y61	G4
2Y63	H3
2Y67	H7
2Y68	I7
2Y69	E4
2Y70	E4
2Y71	H4
7A00-1	A5
9Y05	B4
FA39	E2
FA40	F2
FA41	F2
FA42	F2
IY05	H2
IY06	H2
IY07	A4
IY08	A5
IY50	B4
IY51	E5
IY52	E5
IY53	E5
IY54	F5
IY55	F5
IY56	G5
IY57	G5
IY58	H5
IY59	H5
IY60	H6
IY61	I6

SSB: MPIF Sub: Audio Amplifier


B4 I
MPIF SUB: AUDIO AMPLIFIER
B4 I
1 2 3 4 5 6 7 8 9
A B C D E F
+12VSW
2A82 100n
IK40
7A03-1 LM324
3
2
4
11
1
9Y01
AUDIO-L
AUDIO-R
3A42 1K0
IK41
3A10 47K
3A11 18K
2A85 33p
9Y04
+12VSW
7A03-3 LM324
10
9
4
11
8
+5V-AUD
+5V-AUD
3A24 33K
3A25 33K
IA24
IA25
2A81 1u0
3A26 47K
2A84 1u0
3A27 47K
+12VSW
7A03-4 LM324
12
13
4
11
14
IK42
9Y02
3A45 1K0
IK44
3A12 47K
3A14 18K
2A91 33p
9Y06
9Y07
+12VSW
7A03-2 LM324
5
6
4
11
7
IK43
9Y03
AUDIO-SW
3A46 1K0
RES 3A47 220K
IA30
RES 2A87 1u0
IK45
3A13 47K
9A23
2A92 33p
RES 3A48 82K
3A15 22K
ADAC1
IA31
ADAC2
IA23
ADAC4
IA22
ADAC7
IA26
2A88 100n
+5V2S
2A93 100n
IA28
7A04-2 TS482IST
5
6
8
4
7
ADAC8
IA27
2A89 100n
IA29
3A28 100K
3A29 100K
2A98 33p
RES 9A21
IK47
3A17 100K
2A96 1u0
3A20 33K
IK49
3A21 27K
AUDIO-HDPH-R
+5V2S
7A04-1 TS482IST
3
2
8
4
1
IK46
AUDIO-HDPH-L
2A99 33p
RES 9A22
IK48
3A19 100K
2A97 1u0
3A22 33K
IK50
3A23 27K
3104 313 6080.4
G_15990_016.eps
120406

2A81	C2
2A82	A5
2A84	C2
2A85	B5
2A87	D7
2A88	D2
2A89	E2
2A91	D5
2A92	D7
2A93	E4
2A96	F4
2A97	F6
2A98	F4
2A99	F7
3A10	B5
3A11	B4
3A12	C5
3A13	D7
3A14	D4
3A15	D7
3A17	F4
3A19	F7
3A20	F3
3A21	F4
3A22	F6
3A23	F7
3A24	C2
3A25	C3
3A26	C2
3A27	C3
3A28	E2
3A29	E3
3A42	A5
3A45	C5
3A46	C8
3A47	C7
3A48	D7
7A03-1	A4
7A03-2	C7
7A03-3	A2
7A03-4	C4
7A04-1	E7
7A04-2	E4
9A21	F3
9A22	F6
9A23	D7
9Y01	A5
9Y02	C5
9Y03	C8
9Y04	B5
9Y06	D5
9Y07	B7
IA22	D2
IA23	D2
IA24	C2
IA25	C3
IA26	D2
IA27	E2
IA28	E2
IA29	E3
IA30	C7
IA31	D2
IK40	A5
IK41	A4
IK42	C5
IK43	C7
IK44	C4
IK45	D7
IK46	E7
IK47	F4
IK48	F7
IK49	F4
IK50	F7

SSB: PNX2015: Audio / Video


B5A
PNX2015: AUDIO / VIDEO
B5A
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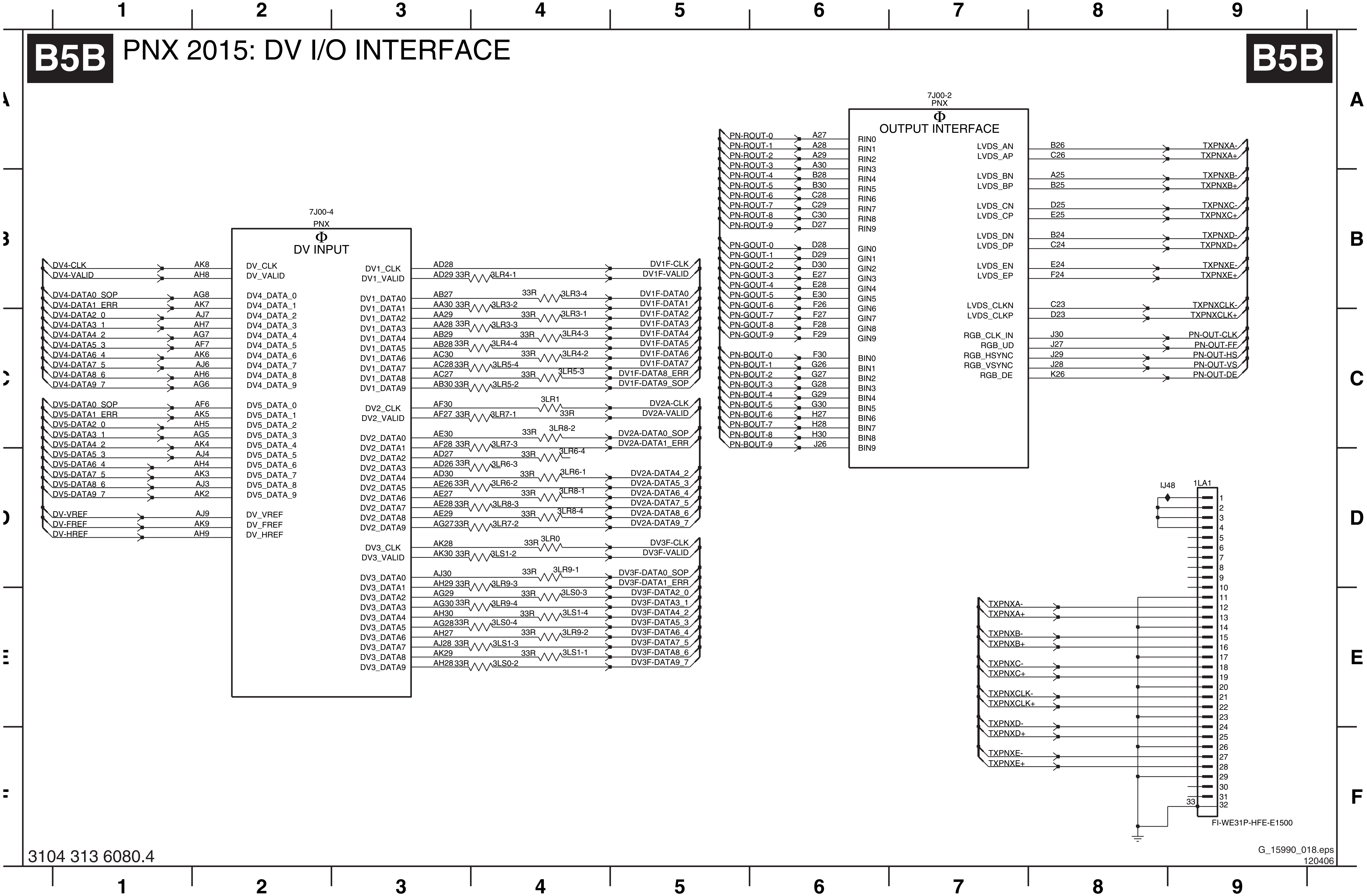
A
B
C
D
E
F
VREF-AUD-POS
2J01
100n
7J00-7
PNX
AUDIO / VIDEO
Y5 ADAC_CLK
ADAC1
ADAC2
ADAC4
ADAC7
ADAC8
DSNDL1
DSNDR1
DSNDL2
DSNDR2
2LA5 3n3
2LA6 3n3
2LA7 3n3
2LA8 3n3
2LA9 3n3
2J22 3n3
2J23 3n3
2J24 3n3
2J25 3n3
AH1 ADAC1
AH2 ADAC1N
AH3 ADAC1P
AG1 ADAC2
AG2 ADAC2N
AG3 ADAC2P
AF1 ADAC3
AF2 ADAC3N
AG4 ADAC3P
AE1 ADAC4
AE2 ADAC4N
AB5 ADAC4P
AD1 ADAC5
AD2 ADAC5N
AB4 ADAC5P
AC1 ADAC6
AC2 ADAC6N
AB3 ADAC6P
AB1 ADAC7
AB2 ADAC7N
AA4 ADAC7P
AA1 ADAC8
AA2 ADAC8N
AA3 ADAC8P
AF3 ADAC9
AF4 ADAC9N
AF5 ADAC9P
AE3 ADAC10
AE4 ADAC10N
AE5 ADAC10P
AD3 ADAC11
AD4 ADAC11N
AD5 ADAC11P
AC3 ADAC12
AC4 ADAC12N
AC5 ADAC12P
I2S-MCH-LR
I2S-MCH-CSW
I2S-MCH-SLR
I2S-MAIN-D
I2S-SUB-D
U2 I2S_IN_SD1
U3 I2S_IN_SD2
U4 I2S_IN_SD3
V4 I2S_IN_SD4
V5 I2S_IN_SD5
W5 I2S_IN_SD6
I2S-BCLK-MAIN V2 I2S_SCK_SYS
I2S-WS-MAIN V3 I2S_WS_SYS
CLK-MPIF M4 MPIF_CLK
I2S-BCLK-SUB U1 I2S_SCK_XTRA
I2S-WS-SUB U5 I2S_WS_XTRA
3J11 68R
AVP1_DLK_VDDA N5
AVP1_DLK_VDDD M5
AVP1_DLK_VSSA P5
AVP1_DLK_VSSD R5
AVP1_DLK1DN R2 DATA1N-MAIN
AVP1_DLK1DP R1 DATA1P-MAIN
AVP1_DLK1SN R4 STROBE1N-MAIN
AVP1_DLK1SP R3 STROBE1P-MAIN
AVP1_DLK2DN P2 DATA2N-MAIN
AVP1_DLK2DP P1 DATA2P-MAIN
AVP1_DLK2SN P4 STROBE2N-MAIN
AVP1_DLK2SP P3 STROBE2P-MAIN
AVP1_DLK3DN N2 DATA3N-MAIN
AVP1_DLK3DP N1 DATA3P-MAIN
AVP1_DLK3SN N4 STROBE3N-MAIN
AVP1_DLK3SP N3 STROBE3P-MAIN
AVP1_DTC_CLVSS T6
AVP1_DTC_VDD3 T3
AVP1_DTC_VDDA T4
AVP1_DTC_VSSA T5
AVP1_HSYNCFBL1 T1
AVP1_HSYNCFBL2 T2
AVP1_HVINFO1 M3
AVP1_VSYNC1 M1
AVP1_VSYNC2 M2
AVP2_DLK_VDDA H5
AVP2_DLK_VDDD G6
AVP2_DLK_VSSA J5
AVP2_DLK_VSSD K5
AVP2_DLK1DN K2 DATA1N-SUB
AVP2_DLK1DP K1 DATA1P-SUB
AVP2_DLK1SN K4 STROBE1N-SUB
AVP2_DLK1SP K3 STROBE1P-SUB
AVP2_DLK2DN J2 DATA2N-SUB
AVP2_DLK2DP J1 DATA2P-SUB
AVP2_DLK2SN J4 STROBE2N-SUB
AVP2_DLK2SP J3 STROBE2P-SUB
AVP2_DLK3DN H2 DATA3N-SUB
AVP2_DLK3DP H1 DATA3P-SUB
AVP2_DLK3SN H4 STROBE3N-SUB
AVP2_DLK3SP H3 STROBE3P-SUB
AVP2_DTC_CLVSS K6
AVP2_DTC_VDD3 L3
AVP2_DTC_VDDA L4
AVP2_DTC_VSSA L5
AVP2_HSYNCFBL1 L1
AVP2_HSYNCFBL2 L2
AVP2_HVINFO1 G3
AVP2_VSYNC1 G1
AVP2_VSYNC2 G2
3JA2 120R
9J22 AV1-AV6_FBL-HSYNC
AV2_FBL
HV-PRM-SUB
3J01 120R
AV6_VSYNC
I2S_OUT_SCK Y2 3J03 68R I2S-BCLK-AVIP
I2S_OUT_SD1 W1
I2S_OUT_SD2 W2
I2S_OUT_SD3 V1
I2S_OUT_SD4 W3 3J07 68R I2S-MAIN-ND
I2S_OUT_SD5 W4 3J08 68R I2S-SUB-ND
I2S_OUT_SD6 Y4
I2S_OUT_WS Y3 3J09 68R I2S-WS-AVIP
IJ00
IJ01
IJ02
IJ03
2J03 100n
2J06 100n
2J08 100n
2J10 100n
5J00 120R +1V2
5J01 120R
5J02 120R +3V3
5J03 120R +1V2
2J30 100n *
IJ25
5J15 * 120R +3V3
* 7J11 BC847BW
IJ26 3J62 10K
AV1-AV6_FBL-HSYNC
IJ31
3J75 2K2 *
FJ41
9J20 *
IJ09 9J24 *
AV2_FBL
HV-PRM-MAIN
3J12 120R *
9J21 *
2J33 100n *
IJ40
* 5J16 120R +3V3
IJ45
* 7J13 BC847BW
IJ46 3J72 * 10K
FJ42
AV6_VSYNC
3J65 * 2K2
3J13 120R
IJ04 5J04 120R +1V2 2J13 100n
IJ05 5J05 120R 2J16 100n
IJ06 5J06 120R +3V3 2J18 100n
IJ07 5J07 120R +1V2 2J20 100n
+3V3 5J13 220R IJ08 2LT6 100n
9L08
7J08
M27-CLK
SN74LVC1G126DCK
EN
3J02 22R M27-PNX
3J05 22R M27-POD
3J06 22R M27-DISP
3104 313 6080.4
G_15990_017.eps
120406

2J01	A1
2J03	A6
2J06	A6
2J08	A6
2J10	A6
2J13	E6
2J16	E6
2J18	F6
2J20	F6
2J22	D1
2J23	D1
2J24	E1
2J25	E1
2J30	B6
2J33	C6
2LA5	B1
2LA6	B1
2LA7	C1
2LA8	C1
2LA9	D1
2LT6	A9
3J01	E4
3J02	A9
3J03	E4
3J05	A9
3J06	A9
3J07	F4
3J08	F4
3J09	F4
3J11	F2
3J12	D5
3J13	D5
3J62	B7
3J65	D7
3J72	D7
3J75	C6
3JA2	E4
5J00	A6
5J01	A6
5J02	A6
5J03	A6
5J04	E6
5J05	E6
5J06	F6
5J07	F6
5J13	A8
5J15	B7
5J16	C7
7J00-7	A3
7J08	A8
7J11	B6
7J13	D7
9J20	C7
9J21	C6
9J22	E4
9J24	C5
9L08	A9
FJ41	C8
FJ42	D8
IJ00	A4
IJ01	A4
IJ02	A6
IJ03	C4
IJ04	E6
IJ05	E6
IJ06	F6
IJ07	F6
IJ08	A8
IJ09	C5
IJ25	B6
IJ26	B7
IJ31	B5
IJ40	C7
IJ45	D5
IJ46	D7

SSB: PNX2015: DV I/O Interface


B5B
PNX 2015: DV I/O INTERFACE
B5B
7J00-4
PNX
DV INPUT
DV4-CLK AK8 DV_CLK
DV4-VALID AH8 DV_VALID
DV4-DATA0_SOP AG8 DV4_DATA_0
DV4-DATA1_ERR AK7 DV4_DATA_1
DV4-DATA2_0 AJ7 DV4_DATA_2
DV4-DATA3_1 AH7 DV4_DATA_3
DV4-DATA4_2 AG7 DV4_DATA_4
DV4-DATA5_3 AF7 DV4_DATA_5
DV4-DATA6_4 AK6 DV4_DATA_6
DV4-DATA7_5 AJ6 DV4_DATA_7
DV4-DATA8_6 AH6 DV4_DATA_8
DV4-DATA9_7 AG6 DV4_DATA_9
DV5-DATA0_SOP AF6 DV5_DATA_0
DV5-DATA1_ERR AK5 DV5_DATA_1
DV5-DATA2_0 AH5 DV5_DATA_2
DV5-DATA3_1 AG5 DV5_DATA_3
DV5-DATA4_2 AK4 DV5_DATA_4
DV5-DATA5_3 AJ4 DV5_DATA_5
DV5-DATA6_4 AH4 DV5_DATA_6
DV5-DATA7_5 AK3 DV5_DATA_7
DV5-DATA8_6 AJ3 DV5_DATA_8
DV5-DATA9_7 AK2 DV5_DATA_9
DV-VREF AJ9 DV_VREF
DV-FREF AK9 DV_FREF
DV-HREF AH9 DV_HREF
DV1_CLK AD28 DV1F-CLK
DV1_VALID AD29 33R 3LR4-1 DV1F-VALID
DV1_DATA0 AB27 33R 3LR3-4 DV1F-DATA0
DV1_DATA1 AA30 33R 3LR3-2 DV1F-DATA1
DV1_DATA2 AA29 33R 3LR3-1 DV1F-DATA2
DV1_DATA3 AA28 33R 3LR3-3 DV1F-DATA3
DV1_DATA4 AB29 33R 3LR4-3 DV1F-DATA4
DV1_DATA5 AB28 33R 3LR4-4 DV1F-DATA5
DV1_DATA6 AC30 33R 3LR4-2 DV1F-DATA6
DV1_DATA7 AC28 33R 3LR5-4 DV1F-DATA7
DV1_DATA8 AC27 33R 3LR5-3 DV1F-DATA8_ERR
DV1_DATA9 AB30 33R 3LR5-2 DV1F-DATA9_SOP
DV2_CLK AF30 3LR1 33R DV2A-CLK
DV2_VALID AF27 33R 3LR7-1 DV2A-VALID
DV2_DATA0 AE30 33R 3LR8-2 DV2A-DATA0_SOP
DV2_DATA1 AF28 33R 3LR7-3 DV2A-DATA1_ERR
DV2_DATA2 AD27 33R 3LR6-4
DV2_DATA3 AD26 33R 3LR6-3
DV2_DATA4 AD30 33R 3LR6-1 DV2A-DATA4_2
DV2_DATA5 AE26 33R 3LR6-2 DV2A-DATA5_3
DV2_DATA6 AE27 33R 3LR8-1 DV2A-DATA6_4
DV2_DATA7 AE28 33R 3LR8-3 DV2A-DATA7_5
DV2_DATA8 AE29 33R 3LR8-4 DV2A-DATA8_6
DV2_DATA9 AG27 33R 3LR7-2 DV2A-DATA9_7
DV3_CLK AK28 33R 3LR0 DV3F-CLK
DV3_VALID AK30 33R 3LS1-2 DV3F-VALID
DV3_DATA0 AJ30 33R 3LR9-1 DV3F-DATA0_SOP
DV3_DATA1 AH29 33R 3LR9-3 DV3F-DATA1_ERR
DV3_DATA2 AG29 33R 3LS0-3 DV3F-DATA2_0
DV3_DATA3 AG30 33R 3LR9-4 DV3F-DATA3_1
DV3_DATA4 AH30 33R 3LS1-4 DV3F-DATA4_2
DV3_DATA5 AG28 33R 3LS0-4 DV3F-DATA5_3
DV3_DATA6 AH27 33R 3LR9-2 DV3F-DATA6_4
DV3_DATA7 AJ28 33R 3LS1-3 DV3F-DATA7_5
DV3_DATA8 AK29 33R 3LS1-1 DV3F-DATA8_6
DV3_DATA9 AH28 33R 3LS0-2 DV3F-DATA9_7
7J00-2
PNX
OUTPUT INTERFACE
PN-ROUT-0 A27 RIN0
PN-ROUT-1 A28 RIN1
PN-ROUT-2 A29 RIN2
PN-ROUT-3 A30 RIN3
PN-ROUT-4 B28 RIN4
PN-ROUT-5 B30 RIN5
PN-ROUT-6 C28 RIN6
PN-ROUT-7 C29 RIN7
PN-ROUT-8 C30 RIN8
PN-ROUT-9 D27 RIN9
PN-GOUT-0 D28 GIN0
PN-GOUT-1 D29 GIN1
PN-GOUT-2 D30 GIN2
PN-GOUT-3 E27 GIN3
PN-GOUT-4 E28 GIN4
PN-GOUT-5 E30 GIN5
PN-GOUT-6 F26 GIN6
PN-GOUT-7 F27 GIN7
PN-GOUT-8 F28 GIN8
PN-GOUT-9 F29 GIN9
PN-BOUT-0 F30 BIN0
PN-BOUT-1 G26 BIN1
PN-BOUT-2 G27 BIN2
PN-BOUT-3 G28 BIN3
PN-BOUT-4 G29 BIN4
PN-BOUT-5 G30 BIN5
PN-BOUT-6 H27 BIN6
PN-BOUT-7 H28 BIN7
PN-BOUT-8 H30 BIN8
PN-BOUT-9 J26 BIN9
LVDS_AN B26 TXPNXA-
LVDS_AP C26 TXPNXA+
LVDS_BN A25 TXPNXB-
LVDS_BP B25 TXPNXB+
LVDS_CN D25 TXPNXC-
LVDS_CP E25 TXPNXC+
LVDS_DN B24 TXPNXD-
LVDS_DP C24 TXPNXD+
LVDS_EN E24 TXPNXE-
LVDS_EP F24 TXPNXE+
LVDS_CLKN C23 TXPNXCLK-
LVDS_CLKP D23 TXPNXCLK+
RGB_CLK_IN J30 PN-OUT-CLK
RGB_UD J27 PN-OUT-FF
RGB_HSYNC J29 PN-OUT-HS
RGB_VSYNC J28 PN-OUT-VS
RGB_DE K26 PN-OUT-DE
IJ48
1LA1
TXPNXA-
TXPNXA+
TXPNXB-
TXPNXB+
TXPNXC-
TXPNXC+
TXPNXCLK-
TXPNXCLK+
TXPNXD-
TXPNXD+
TXPNXE-
TXPNXE+
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33
FI-WE31P-HFE-E1500
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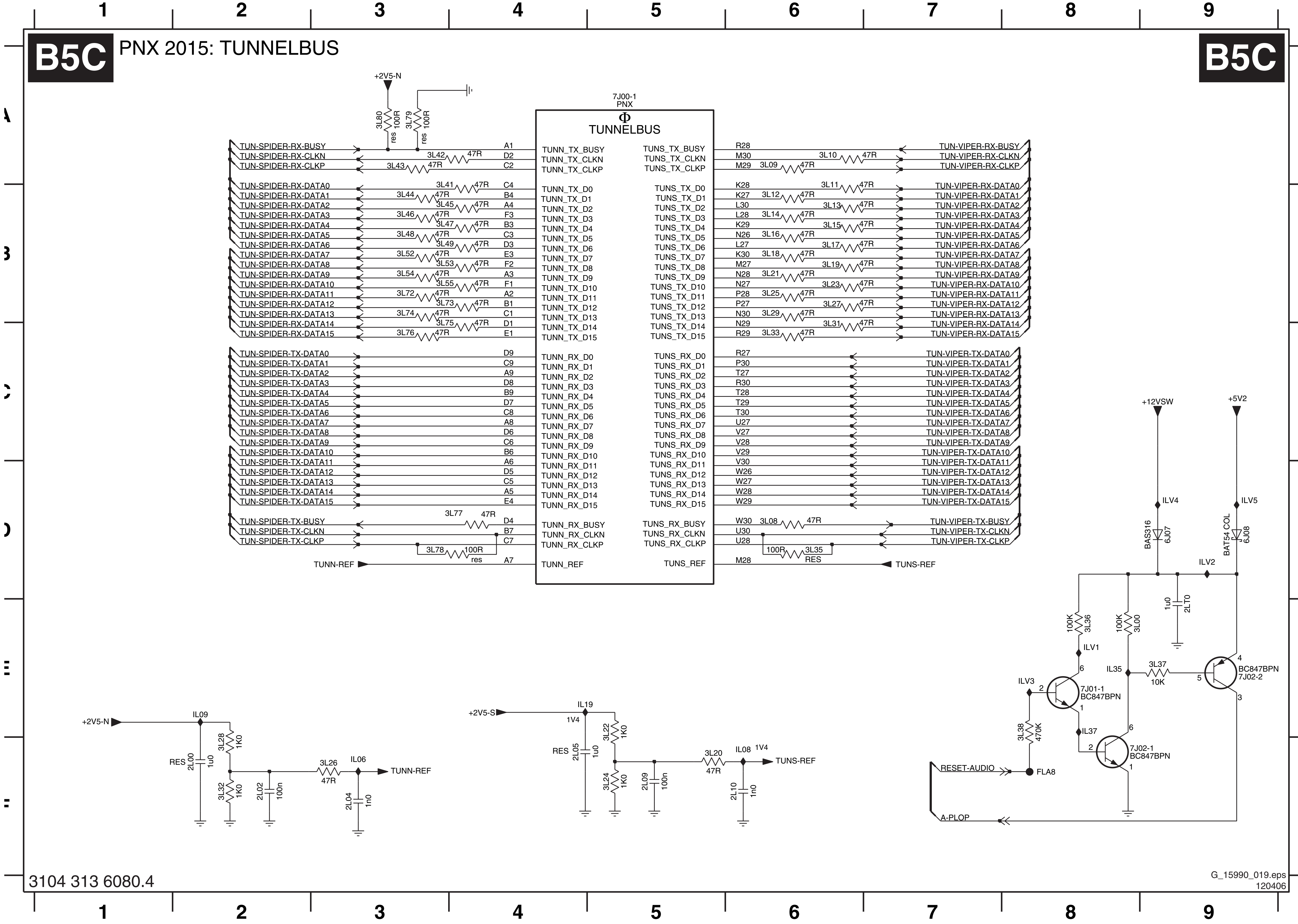
1 2 3 4 5 6 7 8 9
A B C D E F

1LA1	D9
3LR0	D4
3LR1	C4
3LR3-1	C4
3LR3-2	B4
3LR3-3	C4
3LR3-4	B4
3LR4-1	B4
3LR4-2	C4
3LR4-3	C4
3LR4-4	C4
3LR5-2	C4
3LR5-3	C4
3LR5-4	C4
3LR6-1	D4
3LR6-2	D4
3LR6-3	D4
3LR6-4	D4
3LR7-1	C4
3LR7-2	D4
3LR7-3	C4
3LR8-1	D4
3LR8-2	C4
3LR8-3	D4
3LR8-4	D4
3LR9-1	D4
3LR9-2	E4
3LR9-3	D4
3LR9-4	E4
3LS0-2	E4
3LS0-3	E4
3LS0-4	E4
3LS1-1	E4
3LS1-2	D4
3LS1-3	E4
3LS1-4	E4
7J00-2	A7
7J00-4	B2
IJ48	D8

SSB: PNX2015: Tunnelbus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A
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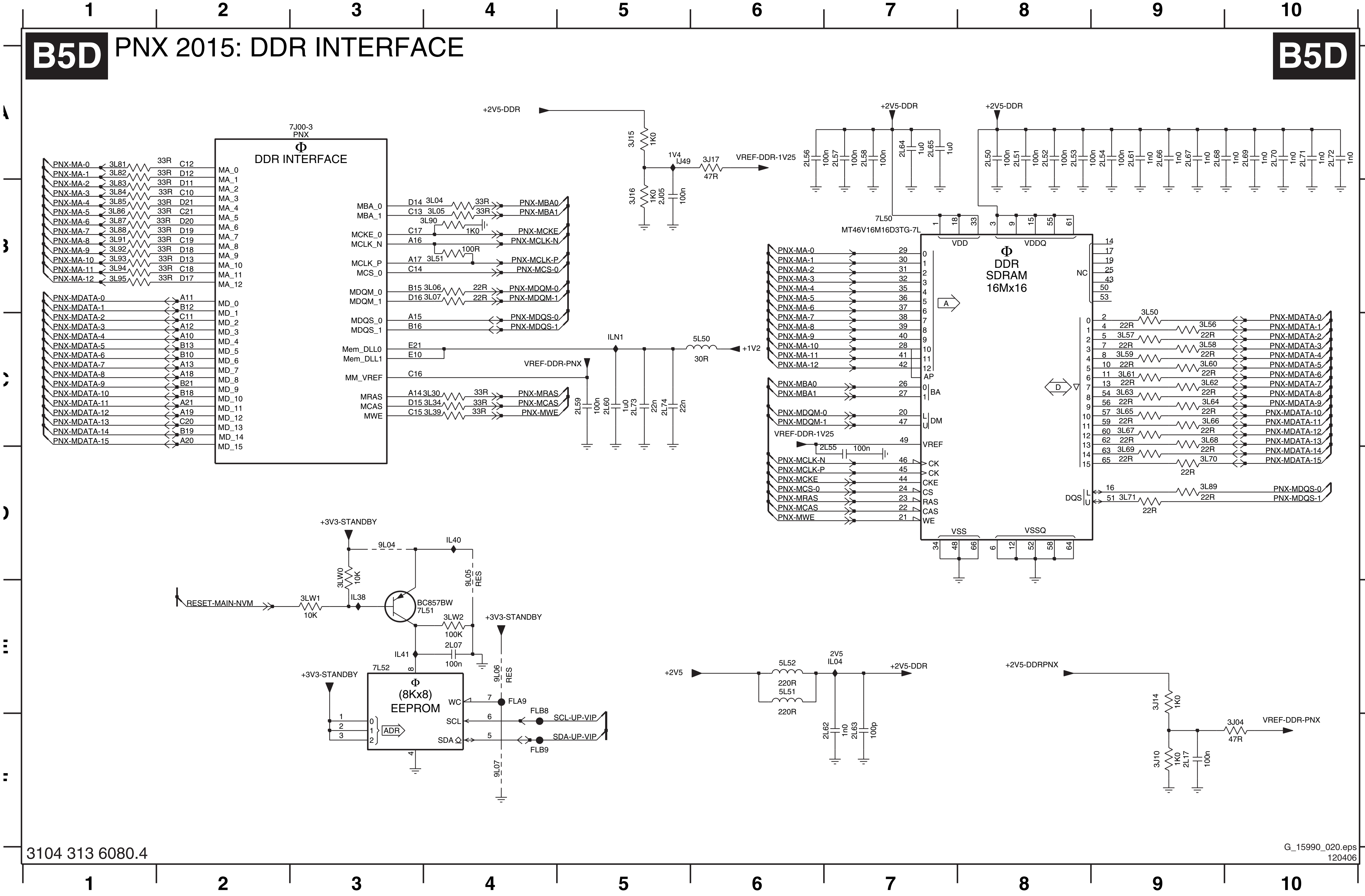
B5C
PNX 2015: TUNNELBUS
B5C
+2V5-N
3L80 100R res
3L79 100R res
7J00-1
PNX
TUNNELBUS
TUN-SPIDER-RX-BUSY
TUN-SPIDER-RX-CLKN
TUN-SPIDER-RX-CLKP
TUN-SPIDER-RX-DATA0
TUN-SPIDER-RX-DATA1
TUN-SPIDER-RX-DATA2
TUN-SPIDER-RX-DATA3
TUN-SPIDER-RX-DATA4
TUN-SPIDER-RX-DATA5
TUN-SPIDER-RX-DATA6
TUN-SPIDER-RX-DATA7
TUN-SPIDER-RX-DATA8
TUN-SPIDER-RX-DATA9
TUN-SPIDER-RX-DATA10
TUN-SPIDER-RX-DATA11
TUN-SPIDER-RX-DATA12
TUN-SPIDER-RX-DATA13
TUN-SPIDER-RX-DATA14
TUN-SPIDER-RX-DATA15
3L42 47R
3L43 47R
3L41 47R
3L44 47R
3L45 47R
3L46 47R
3L47 47R
3L48 47R
3L49 47R
3L52 47R
3L53 47R
3L54 47R
3L55 47R
3L72 47R
3L73 47R
3L74 47R
3L75 47R
3L76 47R
A1 D2 C2 C4 B4 A4 F3 B3 C3 D3 E3 F2 A3 F1 A2 B1 C1 D1 E1
TUNN_TX_BUSY
TUNN_TX_CLKN
TUNN_TX_CLKP
TUNN_TX_D0
TUNN_TX_D1
TUNN_TX_D2
TUNN_TX_D3
TUNN_TX_D4
TUNN_TX_D5
TUNN_TX_D6
TUNN_TX_D7
TUNN_TX_D8
TUNN_TX_D9
TUNN_TX_D10
TUNN_TX_D11
TUNN_TX_D12
TUNN_TX_D13
TUNN_TX_D14
TUNN_TX_D15
TUN-SPIDER-TX-DATA0
TUN-SPIDER-TX-DATA1
TUN-SPIDER-TX-DATA2
TUN-SPIDER-TX-DATA3
TUN-SPIDER-TX-DATA4
TUN-SPIDER-TX-DATA5
TUN-SPIDER-TX-DATA6
TUN-SPIDER-TX-DATA7
TUN-SPIDER-TX-DATA8
TUN-SPIDER-TX-DATA9
TUN-SPIDER-TX-DATA10
TUN-SPIDER-TX-DATA11
TUN-SPIDER-TX-DATA12
TUN-SPIDER-TX-DATA13
TUN-SPIDER-TX-DATA14
TUN-SPIDER-TX-DATA15
D9 C9 A9 D8 B9 D7 C8 A8 D6 C6 B6 A6 D5 C5 A5 E4
TUNN_RX_D0
TUNN_RX_D1
TUNN_RX_D2
TUNN_RX_D3
TUNN_RX_D4
TUNN_RX_D5
TUNN_RX_D6
TUNN_RX_D7
TUNN_RX_D8
TUNN_RX_D9
TUNN_RX_D10
TUNN_RX_D11
TUNN_RX_D12
TUNN_RX_D13
TUNN_RX_D14
TUNN_RX_D15
TUN-SPIDER-TX-BUSY
TUN-SPIDER-TX-CLKN
TUN-SPIDER-TX-CLKP
3L77 47R
3L78 100R res
D4 B7 C7
TUNN_RX_BUSY
TUNN_RX_CLKN
TUNN_RX_CLKP
TUNN-REF
A7
TUNN_REF
TUNS_TX_BUSY
TUNS_TX_CLKN
TUNS_TX_CLKP
TUNS_TX_D0
TUNS_TX_D1
TUNS_TX_D2
TUNS_TX_D3
TUNS_TX_D4
TUNS_TX_D5
TUNS_TX_D6
TUNS_TX_D7
TUNS_TX_D8
TUNS_TX_D9
TUNS_TX_D10
TUNS_TX_D11
TUNS_TX_D12
TUNS_TX_D13
TUNS_TX_D14
TUNS_TX_D15
R28 M30 M29 K28 K27 L30 L28 K29 N26 L27 K30 M27 N28 N27 P28 P27 N30 N29 R29
3L10 47R
3L09 47R
3L11 47R
3L12 47R
3L13 47R
3L14 47R
3L15 47R
3L16 47R
3L17 47R
3L18 47R
3L19 47R
3L21 47R
3L23 47R
3L25 47R
3L27 47R
3L29 47R
3L31 47R
3L33 47R
TUN-VIPER-RX-BUSY
TUN-VIPER-RX-CLKN
TUN-VIPER-RX-CLKP
TUN-VIPER-RX-DATA0
TUN-VIPER-RX-DATA1
TUN-VIPER-RX-DATA2
TUN-VIPER-RX-DATA3
TUN-VIPER-RX-DATA4
TUN-VIPER-RX-DATA5
TUN-VIPER-RX-DATA6
TUN-VIPER-RX-DATA7
TUN-VIPER-RX-DATA8
TUN-VIPER-RX-DATA9
TUN-VIPER-RX-DATA10
TUN-VIPER-RX-DATA11
TUN-VIPER-RX-DATA12
TUN-VIPER-RX-DATA13
TUN-VIPER-RX-DATA14
TUN-VIPER-RX-DATA15
TUNS_RX_D0
TUNS_RX_D1
TUNS_RX_D2
TUNS_RX_D3
TUNS_RX_D4
TUNS_RX_D5
TUNS_RX_D6
TUNS_RX_D7
TUNS_RX_D8
TUNS_RX_D9
TUNS_RX_D10
TUNS_RX_D11
TUNS_RX_D12
TUNS_RX_D13
TUNS_RX_D14
TUNS_RX_D15
R27 P30 T27 R30 T28 T29 T30 U27 V27 V28 V29 V30 W26 W27 W28 W29
TUN-VIPER-TX-DATA0
TUN-VIPER-TX-DATA1
TUN-VIPER-TX-DATA2
TUN-VIPER-TX-DATA3
TUN-VIPER-TX-DATA4
TUN-VIPER-TX-DATA5
TUN-VIPER-TX-DATA6
TUN-VIPER-TX-DATA7
TUN-VIPER-TX-DATA8
TUN-VIPER-TX-DATA9
TUN-VIPER-TX-DATA10
TUN-VIPER-TX-DATA11
TUN-VIPER-TX-DATA12
TUN-VIPER-TX-DATA13
TUN-VIPER-TX-DATA14
TUN-VIPER-TX-DATA15
TUNS_RX_BUSY
TUNS_RX_CLKN
TUNS_RX_CLKP
W30 U30 U28
3L08 47R
3L35 100R RES
TUN-VIPER-TX-BUSY
TUN-VIPER-TX-CLKN
TUN-VIPER-TX-CLKP
TUNS_REF
M28
TUNS-REF
+12VSW
+5V2
ILV4
ILV5
BAS316 6J07
BAT54 COL 6J08
ILV2
1u0 2LT0
100K 3L36
100K 3L00
ILV1
IL35
3L37 10K
ILV3
7J01-1 BC847BPN
BC847BPN 7J02-2
3L38 470K
IL37
7J02-1 BC847BPN
RESET-AUDIO
FLA8
A-PLOP
+2V5-N
IL09
RES 2L00 1u0
3L28 1K0
3L32 1K0
2L02 100n
3L26 47R
IL06
2L04 1n0
TUNN-REF
+2V5-S
IL19
1V4
3L22 1K0
RES 2L05 1u0
3L24 1K0
2L09 100n
3L20 47R
IL08 1V4
2L10 1n0
TUNS-REF
3104 313 6080.4
G_15990_019.eps
120406

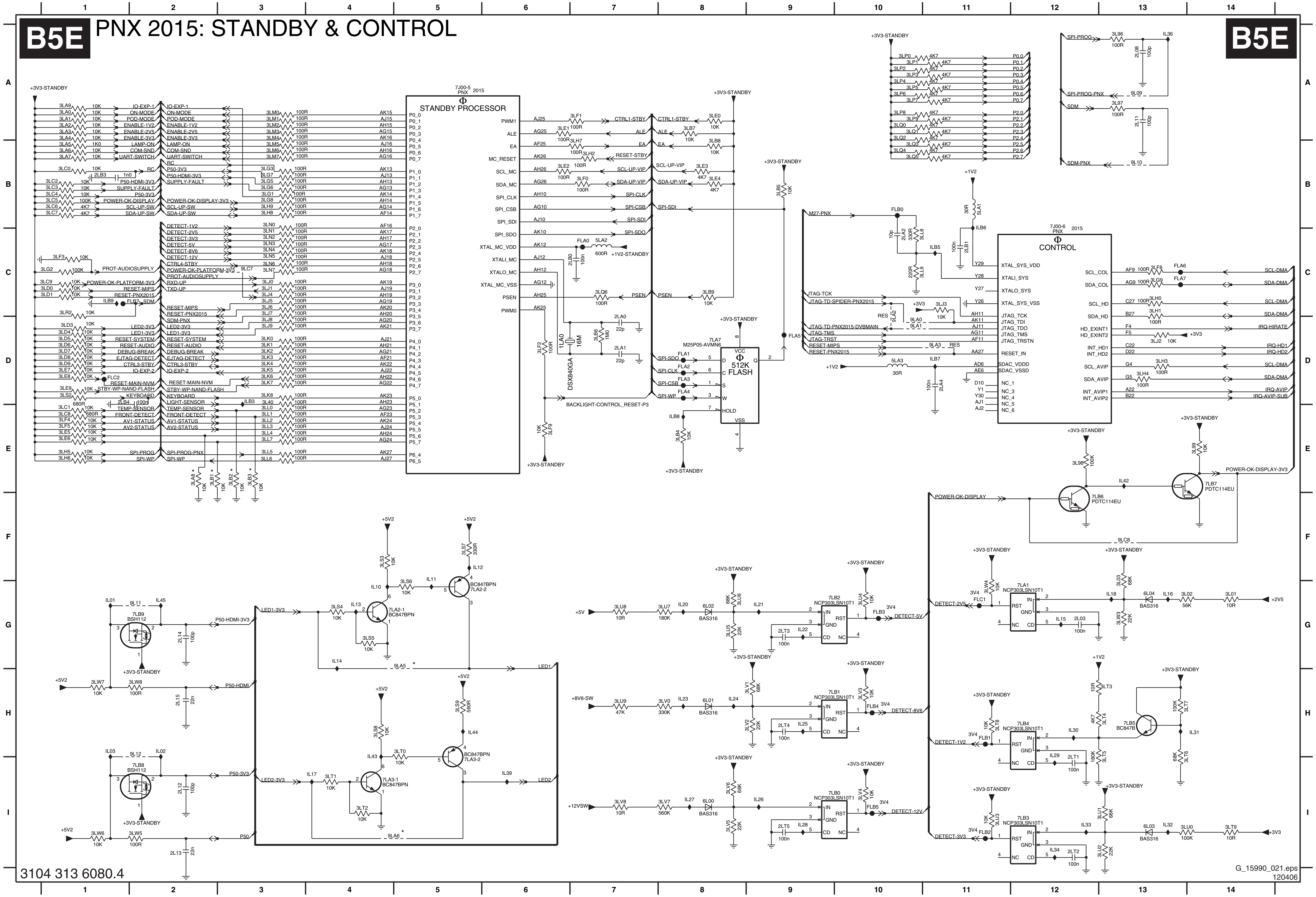
2L00	F2
2L02	F2
2L04	F3
2L05	F4
2L09	F5
2L10	F6
2LT0	E9
3L00	E8
3L08	D6
3L09	A6
3L10	A6
3L11	B6
3L12	B6
3L13	B6
3L14	B6
3L15	B6
3L16	B6
3L17	B6
3L18	B6
3L19	B6
3L20	F5
3L21	B6
3L22	E5
3L23	B6
3L24	F5
3L25	B6
3L26	F3
3L27	B6
3L28	F2
3L29	B6
3L31	C6
3L32	F2
3L33	C6
3L35	D6
3L36	E8
3L37	E9
3L38	E8
3L41	B3
3L42	A3
3L43	A3
3L44	B3
3L45	B3
3L46	B3
3L47	B3
3L48	B3
3L49	B3
3L52	B3
3L53	B3
3L54	B3
3L55	B3
3L72	B3
3L73	B3
3L74	B3
3L75	C3
3L76	C3
3L77	D4
3L78	D3
3L79	A3
3L80	A3
6J07	D9
6J08	D9
7J00-1	A5
7J01-1	E8
7J02-1	F8
7J02-2	E9
FLA8	F8
IL06	F3
IL08	F6
IL09	E2
IL19	E4
IL35	E8
IL37	E8
ILV1	E8
ILV2	D9
ILV3	E8
ILV4	D9
ILV5	D9

SSB: PNX2015: DDR Interface


B5D
PNX 2015: DDR INTERFACE
B5D
7J00-3
PNX
DDR INTERFACE
PNX-MA-0 … PNX-MA-12
3L81 … 3L95
33R
MA_0 … MA_12
PNX-MDATA-0 … PNX-MDATA-15
MD_0 … MD_15
MBA_0
MBA_1
MCKE_0
MCLK_N
MCLK_P
MCS_0
MDQM_0
MDQM_1
MDQS_0
MDQS_1
Mem_DLL0
Mem_DLL1
MM_VREF
MRAS
MCAS
MWE
PNX-MBA0
PNX-MBA1
PNX-MCKE
PNX-MCLK-N
PNX-MCLK-P
PNX-MCS-0
PNX-MDQM-0
PNX-MDQM-1
PNX-MDQS-0
PNX-MDQS-1
PNX-MRAS
PNX-MCAS
PNX-MWE
+2V5-DDR
3J15 1K0
3J16 1K0
2J05 100n
1V4
IJ49
3J17 47R
VREF-DDR-1V25
ILN1
5L50 30R
+1V2
VREF-DDR-PNX
2L59 100n
2L60 1u0
2L73 22n
2L74 22n
7L50
MT46V16M16D3TG-7L
DDR SDRAM 16Mx16
VDD
VDDQ
VSS
VSSQ
NC
AP
BA
DM
VREF
CK
CKE
CS
RAS
CAS
WE
DQS
2L55 100n
3L50 … 3L71
22R
3L89
+3V3-STANDBY
9L04
IL40
9L05 RES
3LW0 10K
IL38
RESET-MAIN-NVM
3LW1 10K
BC857BW
7L51
3LW2 100K
IL41
2L07 100n
7L52
(8Kx8)
EEPROM
WC
SCL
SDA
ADR
9L06 RES
9L07
FLA9
FLB8
FLB9
SCL-UP-VIP
SDA-UP-VIP
+2V5
5L52 220R
5L51 220R
2V5
IL04
2L62 1n0
2L63 100p
+2V5-DDRPNX
3J14 1K0
3J10 1K0
2L17 100n
3J04 47R
3104 313 6080.4
G_15990_020.eps
120406

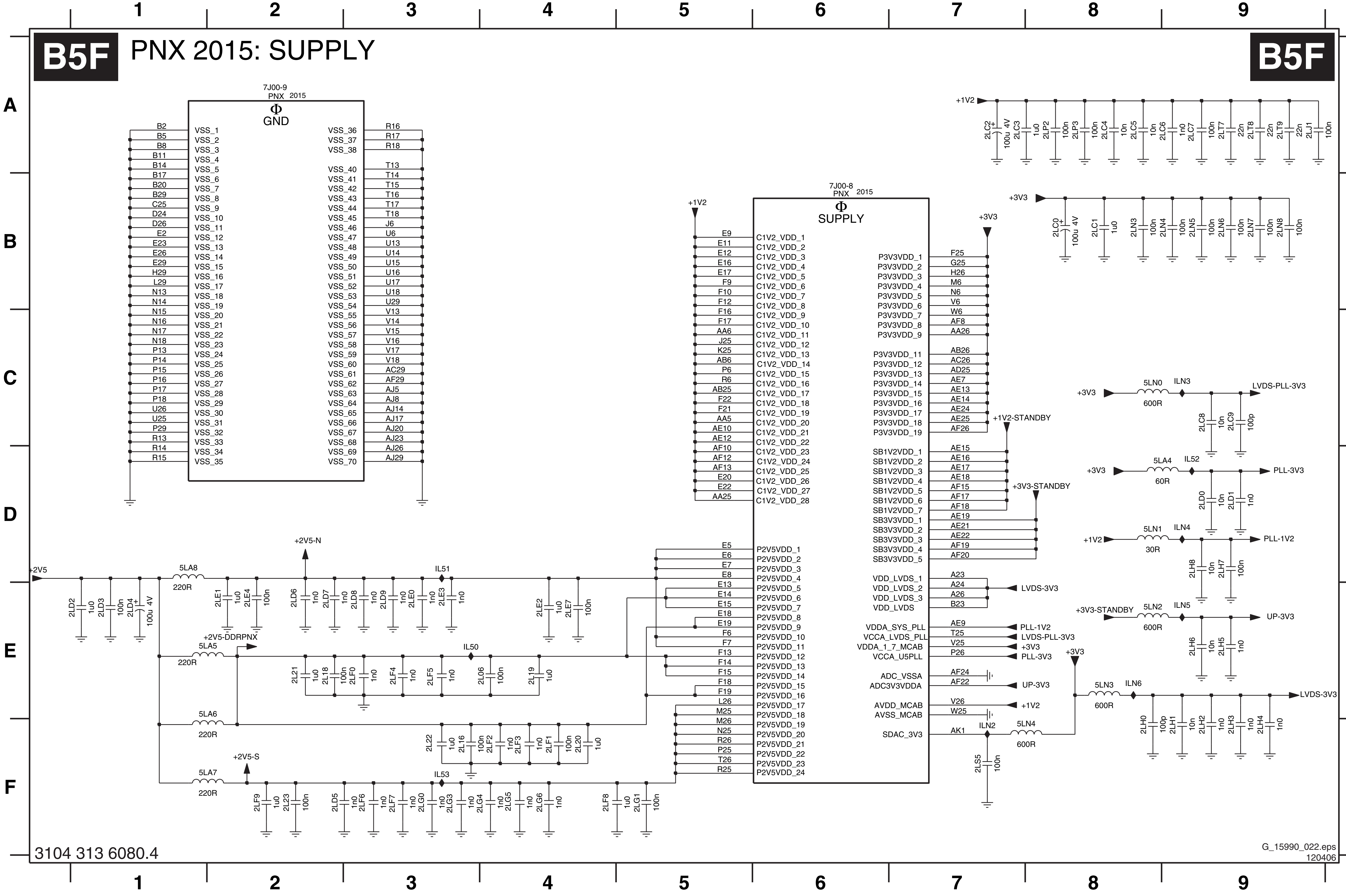
2J05	B5
2L07	E4
2L17	F9
2L50	A8
2L51	A8
2L52	A8
2L53	A8
2L54	A9
2L55	C7
2L56	A6
2L57	A7
2L58	A7
2L59	C5
2L60	C5
2L61	A9
2L62	F7
2L63	F7
2L64	A7
2L65	A7
2L66	A9
2L67	A9
2L68	A9
2L69	A10
2L70	A10
2L71	A10
2L72	A10
2L73	C5
2L74	C5
3J04	F10
3J10	F9
3J14	E9
3J15	A5
3J16	B5
3J17	A6
3L04	B4
3L05	B4
3L06	B4
3L07	B4
3L30	C4
3L34	C4
3L39	C4
3L50	C9
3L51	B4
3L56	C9
3L57	C9
3L58	C9
3L59	C9
3L60	C9
3L61	C9
3L62	C9
3L63	C9
3L64	C9
3L65	C9
3L66	C9
3L67	C9
3L68	C9
3L69	D9
3L70	D9
3L71	D9
3L81	A1
3L82	A1
3L83	B1
3L84	B1
3L85	B1
3L86	B1
3L87	B1
3L88	B1
3L89	D9
3L90	B4
3L91	B1
3L92	B1
3L93	B1
3L94	B1
3L95	B1
3LW0	D3
3LW1	E3
3LW2	E4
5L50	C6
5L51	E6
5L52	E6
7J00-3	A3
7L50	B7
7L51	E3
7L52	E3
9L04	D3
9L05	D4
9L06	E4
9L07	F4
FLA9	E4
FLB8	E4
FLB9	F4
IJ49	A5
IL04	E7
IL38	E3
IL40	D4
IL41	E3
ILN1	C5

SSB: PNX2015: Standby & Control


B5E
PNX 2015: STANDBY & CONTROL
B5E
7J00-5 PNX 2015
STANDBY PROCESSOR
7J00-6 PNX 2015
CONTROL
7LA7 M25P05-AVMN6
512K FLASH
1LA0 16M DSX840GA
+3V3-STANDBY
+1V2-STANDBY
+1V2
+5V2
+5V
+8V6-SW
+12VSW
+2V5
+3V3
7LB9 BSH112
7LB8 BSH112
7LA2-1 BC847BPN
7LA2-2 BC847BPN
7LA3-1 BC847BPN
7LA3-2 BC847BPN
7LB6 PDTC114EU
7LB7 PDTC114EU
7LB5 BC847B
7LB2 NCP303LSN10T1
7LB1 NCP303LSN10T1
7LB0 NCP303LSN10T1
7LA1 NCP303LSN10T1
7LB4 NCP303LSN10T1
7LB3 NCP303LSN10T1
BAS316
POWER-OK-DISPLAY-3V3
POWER-OK-DISPLAY
DETECT-5V
DETECT-8V6
DETECT-12V
DETECT-2V5
DETECT-1V2
DETECT-3V3
LED1-3V3
LED2-3V3
LED1
LED2
P50-HDMI-3V3
P50-HDMI
P50-3V3
P50
SCL-DMA
SDA-DMA
IRQ-HIRATE
IRQ-HD1
IRQ-HD2
IRQ-AVIP
IRQ-AVIP-SUB
SPI-PROG
SPI-PROG-PNX
SDM
SDM-PNX
M27-PNX
BACKLIGHT-CONTROL_RESET-P3
3104 313 6080.4
G_15990_021.eps
120406

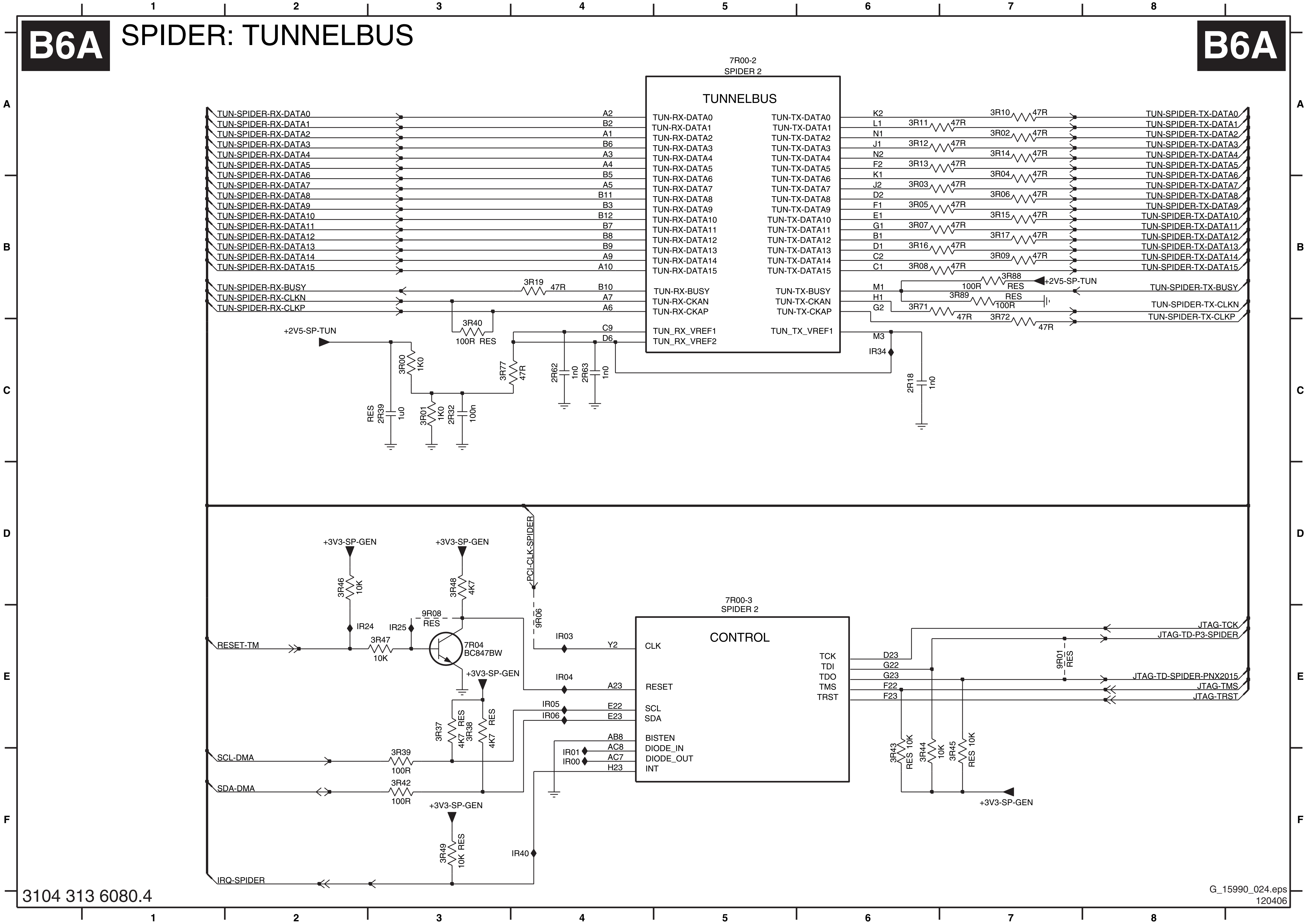
1LA0	D6	3LN5	C3	IL34	I12
2L03	G12	3LN6	C3	IL36	A12
2L08	A12	3LN7	C3	IL39	I6
2L11	A12	3LP0	A10	IL42	E13
2L12	I2	3LP1	A10	IL43	H4
2L13	I2	3LP2	A10	IL44	H5
2L14	G2	3LP3	A10	IL45	G2
2L15	H2	3LP4	A10	ILB3	D3
2LA0	D7	3LP5	A10	ILB5	C11
2LA1	D7	3LP6	A10	ILB6	B11
2LA2	C10	3LP7	A10	ILB7	D11
2LA4	D11	3LP8	A10	ILB8	E8
2LB0	C7	3LP9	A10	ILB9	C1
2LB1	C11	3LQ0	A10		
2LB3	B1	3LQ1	B10		
2LB4	D1	3LQ2	B10		
2LT1	I12	3LQ3	B10		
2LT2	I12	3LQ4	B10		
2LT3	G9	3LQ5	B10		
2LT4	H9	3LQ6	C7		
2LT5	I9	3LR2	C1		
3L01	G14	3LS2	D1		
3L02	G13	3LS3	F4		
3L03	F13	3LS4	G4		
3L40	D3	3LS5	G4		
3L96	A11	3LS6	G5		
3L97	A11	3LS7	F5		
3L98	E12	3LS8	H4		
3L99	E14	3LS9	H5		
3LA0	A1	3LT0	H5		
3LA1	A1	3LT1	I4		
3LA2	A1	3LT2	I4		
3LA3	A1	3LT3	H13		
3LA4	A1	3LT4	H13		
3LA5	B1	3LT5	H13		
3LA6	B1	3LT6	H13		
3LA7	B1	3LT7	H13		
3LA8	E2	3LT8	H11		
3LA9	A1	3LT9	I14		
3LB1	E2	3LU0	I13		
3LB2	E3	3LU1	I13		
3LB3	E3	3LU2	I13		
3LB4	E8	3LU3	I11		
3LB5	B9	3LU4	G10		
3LB6	D7	3LU5	G8		
3LB7	A8	3LU6	G8		
3LB8	B8	3LU7	G8		
3LB9	C8	3LU8	G7		
3LC0	B1	3LU9	H7		
3LC1	E1	3LV0	H8		
3LC2	B1	3LV1	H9		
3LC3	B1	3LV2	H9		
3LC4	B1	3LV3	H10		
3LC5	B1	3LV4	I10		
3LC6	B1	3LV5	I8		
3LC7	B1	3LV6	I8		
3LC8	E1	3LV7	I8		
3LC9	C1	3LV8	I7		
3LD0	C1	3LW3	G13		
3LD1	C1	3LW4	G11		
3LD3	D1	3LW5	I2		
3LD4	D1	3LW6	I1		
3LD5	D1	3LW7	H1		
3LD6	D1	3LW8	H2		
3LD7	D1	5LA1	B11		
3LD8	D1	5LA2	C7		
3LD9	D1	5LA3	D10		
3LE0	A8	6L00	I8		
3LE1	A6	6L01	H8		
3LE2	B6	6L02	G8		
3LE3	B8	6L03	I13		
3LE4	B8	6L04	G13		
3LE5	E1	7J00-5	A5		
3LE6	E1	7J00-6	B12		
3LE7	D1	7LA1	G12		
3LE8	D1	7LA2-1	G4		
3LE9	D1	7LA2-2	G5		
3LF0	B7	7LA3-1	I4		
3LF1	A7	7LA3-2	I5		
3LF2	D6	7LA7	D8		
3LF3	C1	7LB0	I9		
3LF4	E1	7LB1	H9		
3LF5	E1	7LB2	G9		
3LF8	C13	7LB3	I12		
3LF9	E6	7LB4	H12		
3LG1	B3	7LB5	H13		
3LG2	C1	7LB6	F12		
3LG3	B3	7LB7	E14		
3LG5	B3	7LB8	I2		
3LG6	B3	7LB9	G2		
3LG7	B3	9L09	A12		
3LG8	B3	9L10	B12		
3LG9	C13	9L11	G2		
3LH0	C13	9L12	H2		
3LH1	C13	9LA0	D10		
3LH2	B7	9LA1	D10		
3LH3	D13	9LA2	C10		
3LH4	D13	9LA3	D11		
3LH5	E1	9LA5	G5		
3LH6	E1	9LA6	I4		
3LH7	B7	9LC7	C3		
3LH8	B3	9LC8	F13		
3LH9	B3	FLA0	C7		
3LJ0	C3	FLA1	D8		
3LJ1	C3	FLA2	D8		
3LJ2	D13	FLA3	D8		
3LJ3	C11	FLA4	D8		
3LJ4	C3	FLA5	D9		
3LJ5	C3	FLA6	C13		
3LJ6	C3	FLA7	C13		
3LJ7	C3	FLB0	B10		
3LJ8	D3	FLB1	H11		
3LJ9	D3	FLB2	I11		
3LK0	D3	FLB3	G10		
3LK1	D3	FLB4	H10		
3LK2	D3	FLB5	I10		
3LK3	D3	FLB7	C2		
3LK4	D3	FLC1	G11		
3LK5	D3	FLC2	D1		
3LK6	D3	IL01	G1		
3LK7	D3	IL02	H2		
3LK8	D3	IL03	H1		
3LL0	E3	IL10	G4		
3LL1	E3	IL11	F5		
3LL2	E3	IL12	F5		
3LL3	E3	IL13	G4		
3LL4	E3	IL14	G4		
3LL5	E3	IL15	G12		
3LL6	E3	IL16	G13		
3LL7	E3	IL17	I4		
3LL8	C10	IL18	G13		
3LL9	C10	IL20	G8		
3LM0	A3	IL21	G9		
3LM1	A3	IL22	G9		
3LM2	A3	IL23	H8		
3LM3	A3	IL24	H8		
3LM4	A3	IL25	H9		
3LM5	B3	IL26	I9		
3LM6	B3	IL27	I8		
3LM7	B3	IL28	I9		
3LN0	B3	IL29	H12		
3LN1	C3	IL30	H12		
3LN2	C3	IL31	H14		
3LN3	C3	IL32	I13		
3LN4	C3	IL33	I12		

SSB: PNX2015: Supply


B5F
PNX 2015: SUPPLY
B5F
7J00-9
PNX 2015
GND
VSS_1 … VSS_35
VSS_36 … VSS_70
7J00-8
PNX 2015
SUPPLY
C1V2_VDD_1 … C1V2_VDD_28
P2V5VDD_1 … P2V5VDD_24
P3V3VDD_1 … P3V3VDD_19
SB1V2VDD_1 … SB1V2VDD_7
SB3V3VDD_1 … SB3V3VDD_5
VDD_LVDS_1
VDD_LVDS_2
VDD_LVDS_3
VDD_LVDS
VDDA_SYS_PLL
VCCA_LVDS_PLL
VDDA_1_7_MCAB
VCCA_U5PLL
ADC_VSSA
ADC3V3VDDA
AVDD_MCAB
AVSS_MCAB
SDAC_3V3
+1V2
+3V3
+2V5
+2V5-N
+2V5-DDRPNX
+2V5-S
+1V2-STANDBY
+3V3-STANDBY
LVDS-PLL-3V3
PLL-3V3
PLL-1V2
UP-3V3
LVDS-3V3
5LA8 220R
5LA5 220R
5LA6 220R
5LA7 220R
5LN0 600R
5LA4 60R
5LN1 30R
5LN2 600R
5LN3 600R
5LN4 600R
IL50
IL51
IL52
IL53
ILN2
ILN3
ILN4
ILN5
ILN6
100u 4V
3104 313 6080.4
G_15990_022.eps
120406
1 2 3 4 5 6 7 8 9
A B C D E F

2L06	E4
2L16	F3
2L18	E2
2L19	E4
2L20	F4
2L21	E2
2L22	F3
2L23	F2
2LC0	B8
2LC1	B8
2LC2	A7
2LC3	A7
2LC4	A8
2LC5	A8
2LC6	A8
2LC7	A9
2LC8	C9
2LC9	C9
2LD0	D9
2LD1	D9
2LD2	E1
2LD3	E1
2LD4	E1
2LD5	F2
2LD6	E2
2LD7	E2
2LD8	E3
2LD9	E3
2LE0	E3
2LE1	E2
2LE2	E4
2LE3	E3
2LE4	E2
2LE7	E4
2LF0	E3
2LF1	F4
2LF2	F4
2LF3	F4
2LF4	E3
2LF5	E3
2LF6	F3
2LF7	F3
2LF8	F4
2LF9	F2
2LG0	F3
2LG1	F5
2LG3	F3
2LG4	F3
2LG5	F4
2LG6	F4
2LH0	F8
2LH1	F9
2LH2	F9
2LH3	F9
2LH4	F9
2LH5	E9
2LH6	E9
2LH7	D9
2LH8	D9
2LJ1	A9
2LN3	B8
2LN4	B9
2LN5	B9
2LN6	B9
2LN7	B9
2LN8	B9
2LP2	A8
2LP3	A8
2LS5	F7
2LT7	A9
2LT8	A9
2LT9	A9
5LA4	D9
5LA5	E2
5LA6	E2
5LA7	F2
5LA8	D1
5LN0	C8
5LN1	D8
5LN2	E8
5LN3	E8
5LN4	F8
7J00-8	B6
7J00-9	A2
IL50	E3
IL51	D3
IL52	D9
IL53	F3
ILN2	F7
ILN3	C9
ILN4	D9
ILN5	E9
ILN6	E8

SSB: Spider: Tunnelbus


B6A
SPIDER: TUNNELBUS
B6A
1 2 3 4 5 6 7 8
A B C D E F
7R00-2
SPIDER 2
TUNNELBUS
TUN-SPIDER-RX-DATA0
TUN-SPIDER-RX-DATA1
TUN-SPIDER-RX-DATA2
TUN-SPIDER-RX-DATA3
TUN-SPIDER-RX-DATA4
TUN-SPIDER-RX-DATA5
TUN-SPIDER-RX-DATA6
TUN-SPIDER-RX-DATA7
TUN-SPIDER-RX-DATA8
TUN-SPIDER-RX-DATA9
TUN-SPIDER-RX-DATA10
TUN-SPIDER-RX-DATA11
TUN-SPIDER-RX-DATA12
TUN-SPIDER-RX-DATA13
TUN-SPIDER-RX-DATA14
TUN-SPIDER-RX-DATA15
TUN-SPIDER-RX-BUSY
TUN-SPIDER-RX-CLKN
TUN-SPIDER-RX-CLKP
A2 B2 A1 B6 A3 A4 B5 A5 B11 B3 B12 B7 B8 B9 A9 A10
B10 A7 A6 C9 D6
3R19 47R
3R40 100R RES
+2V5-SP-TUN
3R00 1K0
3R01 1K0
2R39 1u0 RES
2R32 100n
3R77 47R
2R62 1n0
2R63 1n0
TUN-RX-DATA0
TUN-RX-DATA1
TUN-RX-DATA2
TUN-RX-DATA3
TUN-RX-DATA4
TUN-RX-DATA5
TUN-RX-DATA6
TUN-RX-DATA7
TUN-RX-DATA8
TUN-RX-DATA9
TUN-RX-DATA10
TUN-RX-DATA11
TUN-RX-DATA12
TUN-RX-DATA13
TUN-RX-DATA14
TUN-RX-DATA15
TUN-RX-BUSY
TUN-RX-CKAN
TUN-RX-CKAP
TUN_RX_VREF1
TUN_RX_VREF2
TUN-TX-DATA0
TUN-TX-DATA1
TUN-TX-DATA2
TUN-TX-DATA3
TUN-TX-DATA4
TUN-TX-DATA5
TUN-TX-DATA6
TUN-TX-DATA7
TUN-TX-DATA8
TUN-TX-DATA9
TUN-TX-DATA10
TUN-TX-DATA11
TUN-TX-DATA12
TUN-TX-DATA13
TUN-TX-DATA14
TUN-TX-DATA15
TUN-TX-BUSY
TUN-TX-CKAN
TUN-TX-CKAP
TUN_TX_VREF1
K2 L1 N1 J1 N2 F2 K1 J2 D2 F1 E1 G1 B1 D1 C2 C1
M1 H1 G2 M3
3R10 47R
3R11 47R
3R02 47R
3R12 47R
3R14 47R
3R13 47R
3R04 47R
3R03 47R
3R06 47R
3R05 47R
3R15 47R
3R07 47R
3R17 47R
3R16 47R
3R09 47R
3R08 47R
3R88 100R RES
+2V5-SP-TUN
3R89 RES 100R
3R71 47R
3R72 47R
IR34
2R18 1n0
TUN-SPIDER-TX-DATA0
TUN-SPIDER-TX-DATA1
TUN-SPIDER-TX-DATA2
TUN-SPIDER-TX-DATA3
TUN-SPIDER-TX-DATA4
TUN-SPIDER-TX-DATA5
TUN-SPIDER-TX-DATA6
TUN-SPIDER-TX-DATA7
TUN-SPIDER-TX-DATA8
TUN-SPIDER-TX-DATA9
TUN-SPIDER-TX-DATA10
TUN-SPIDER-TX-DATA11
TUN-SPIDER-TX-DATA12
TUN-SPIDER-TX-DATA13
TUN-SPIDER-TX-DATA14
TUN-SPIDER-TX-DATA15
TUN-SPIDER-TX-BUSY
TUN-SPIDER-TX-CLKN
TUN-SPIDER-TX-CLKP
+3V3-SP-GEN
3R46 10K
IR24
+3V3-SP-GEN
3R48 4K7
9R08 RES
IR25
RESET-TM
3R47 10K
7R04 BC847BW
+3V3-SP-GEN
3R37 4K7 RES
3R38 4K7 RES
SCL-DMA
3R39 100R
SDA-DMA
3R42 100R
+3V3-SP-GEN
3R49 10K RES
IR40
IRQ-SPIDER
PCI-CLK-SPIDER
9R06
IR03 Y2
IR04 A23
IR05 E22
IR06 E23
AB8
IR01 AC8
IR00 AC7
H23
7R00-3
SPIDER 2
CONTROL
CLK
RESET
SCL
SDA
BISTEN
DIODE_IN
DIODE_OUT
INT
TCK
TDI
TDO
TMS
TRST
D23 G22 G23 F22 F23
9R01 RES
3R43 RES 10K
3R44 10K
3R45 RES 10K
+3V3-SP-GEN
JTAG-TCK
JTAG-TD-P3-SPIDER
JTAG-TD-SPIDER-PNX2015
JTAG-TMS
JTAG-TRST

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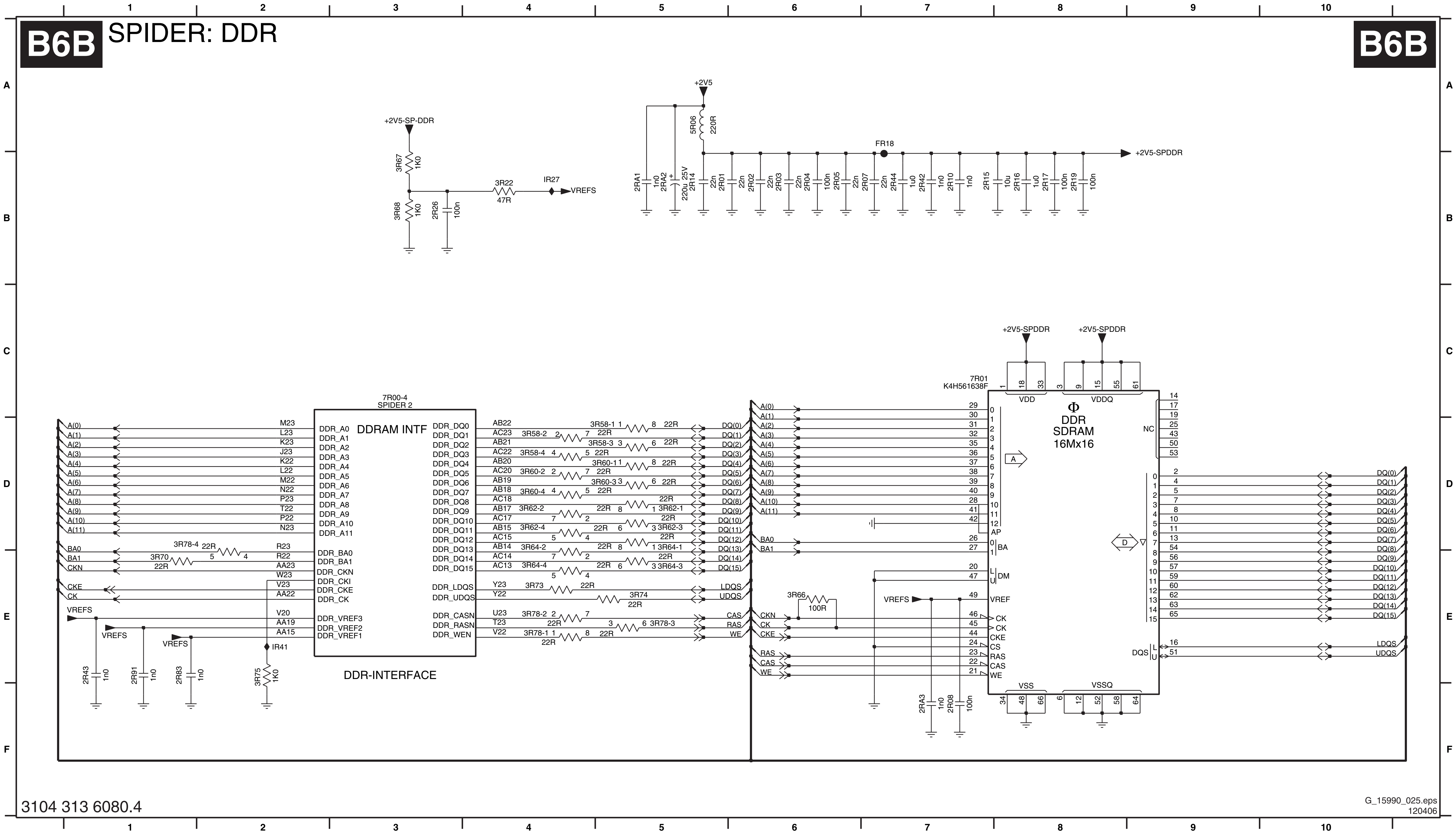
2R18	C6
2R32	C3
2R39	C3
2R62	C4
2R63	C4
3R00	C3
3R01	C3
3R02	A7
3R03	B6
3R04	B7
3R05	B6
3R06	B7
3R07	B6
3R08	B6
3R09	B7
3R10	A7
3R11	A6
3R12	A6
3R13	A6
3R14	A7
3R15	B7
3R16	B6
3R17	B7
3R19	B4
3R37	E3
3R38	E3
3R39	F3
3R40	C3
3R42	F3
3R43	F6
3R44	F6
3R45	F7
3R46	D2
3R47	E3
3R48	D3
3R49	F3
3R71	B6
3R72	C7
3R77	C3
3R88	B7
3R89	B7
7R00-2	A5
7R00-3	D5
7R04	E3
9R01	E7
9R06	E4
9R08	E3
IR00	F4
IR01	F4
IR03	E4
IR04	E4
IR05	E4
IR06	F4
IR24	E2
IR25	E3
IR34	C6
IR40	F4

SSB: Spider: DDR

2R01 B5
2R02 B6
2R03 B6
2R04 B6
2R05 B6
2R07 B7
2R08 F7
2R10 B7
2R14 B5
2R15 B7
2R16 B8
2R17 B8
2R19 B8
2R26 B3
2R42 B7
2R43 E1
2R44 B7
2R83 E1
2R91 E1
2RA1 B5
2RA2 B5
2RA3 F7
3R22 B4
3R58-1 D5
3R58-2 D4
3R58-3 D5
3R58-4 D4
3R60-1 D5
3R60-2 D4
3R60-3 D5
3R60-4 D4
3R62-1 D5
3R62-2 D4
3R62-3 D5
3R62-4 D4
3R64-1 D5
3R64-2 D4
3R64-3 E5
3R64-4 E4
3R66 E6
3R67 B3
3R68 B3
3R70 E1
3R73 E4
3R74 E5
3R75 E2
3R78-1 E4
3R78-2 E4
3R78-3 E5
3R78-4 D1
5R06 A5
7R00-4 C3
7R01 C7
FR18 A7
IR27 B4
IR41 E2


B6B
SPIDER: DDR
B6B
1 2 3 4 5 6 7 8 9 10
A B C D E F
+2V5-SP-DDR
3R67 1K0
3R68 1K0
2R26 100n
3R22 47R
IR27
VREFS
+2V5
5R06 220R
FR18
+2V5-SPDDR
2RA1 1n0
2RA2 220u 25V
2R14 22n
2R01 22n
2R02 22n
2R03 22n
2R04 100n
2R05 22n
2R07 22n
2R44 1u0
2R42 1n0
2R10 1n0
2R15 10u
2R16 1u0
2R17 100n
2R19 100n
7R00-4
SPIDER 2
DDRAM INTF
DDR-INTERFACE
A(0) A(1) A(2) A(3) A(4) A(5) A(6) A(7) A(8) A(9) A(10) A(11)
M23 L23 K23 J23 K22 L22 M22 N22 P23 T22 P22 N23
DDR_A0 DDR_A1 DDR_A2 DDR_A3 DDR_A4 DDR_A5 DDR_A6 DDR_A7 DDR_A8 DDR_A9 DDR_A10 DDR_A11
BA0 BA1 CKN CKE CK
3R78-4 22R
3R70 22R
R23 R22 AA23 W23 V23 AA22
DDR_BA0 DDR_BA1 DDR_CKN DDR_CKI DDR_CKE DDR_CK
VREFS
V20 AA19 AA15
DDR_VREF3 DDR_VREF2 DDR_VREF1
IR41
2R43 1n0
2R91 1n0
2R83 1n0
3R75 1K0
DDR_DQ0 DDR_DQ1 DDR_DQ2 DDR_DQ3 DDR_DQ4 DDR_DQ5 DDR_DQ6 DDR_DQ7 DDR_DQ8 DDR_DQ9 DDR_DQ10 DDR_DQ11 DDR_DQ12 DDR_DQ13 DDR_DQ14 DDR_DQ15
AB22 AC23 AB21 AC22 AB20 AC20 AB19 AB18 AC18 AB17 AC17 AB15 AC15 AB14 AC14 AC13
3R58-1 3R58-2 3R58-3 3R58-4 3R60-1 3R60-2 3R60-3 3R60-4 3R62-1 3R62-2 3R62-3 3R62-4 3R64-1 3R64-2 3R64-3 3R64-4
22R
DQ(0) DQ(1) DQ(2) DQ(3) DQ(4) DQ(5) DQ(6) DQ(7) DQ(8) DQ(9) DQ(10) DQ(11) DQ(12) DQ(13) DQ(14) DQ(15)
DDR_LDQS DDR_UDQS
Y23 Y22
3R73 22R
3R74 22R
LDQS UDQS
DDR_CASN DDR_RASN DDR_WEN
U23 T23 V22
3R78-2 22R
3R78-3
3R78-1 22R
CAS RAS WE
7R01
K4H561638F
Φ
DDR
SDRAM
16Mx16
VDD VDDQ NC
VSS VSSQ
AP BA DM VREF CK CK CKE CS RAS CAS WE DQS
3R66 100R
2RA3 1n0
2R08 100n
CKN CK CKE RAS CAS WE
DQ(0) DQ(1) DQ(2) DQ(3) DQ(4) DQ(5) DQ(6) DQ(7) DQ(8) DQ(9) DQ(10) DQ(11) DQ(12) DQ(13) DQ(14) DQ(15)
LDQS UDQS
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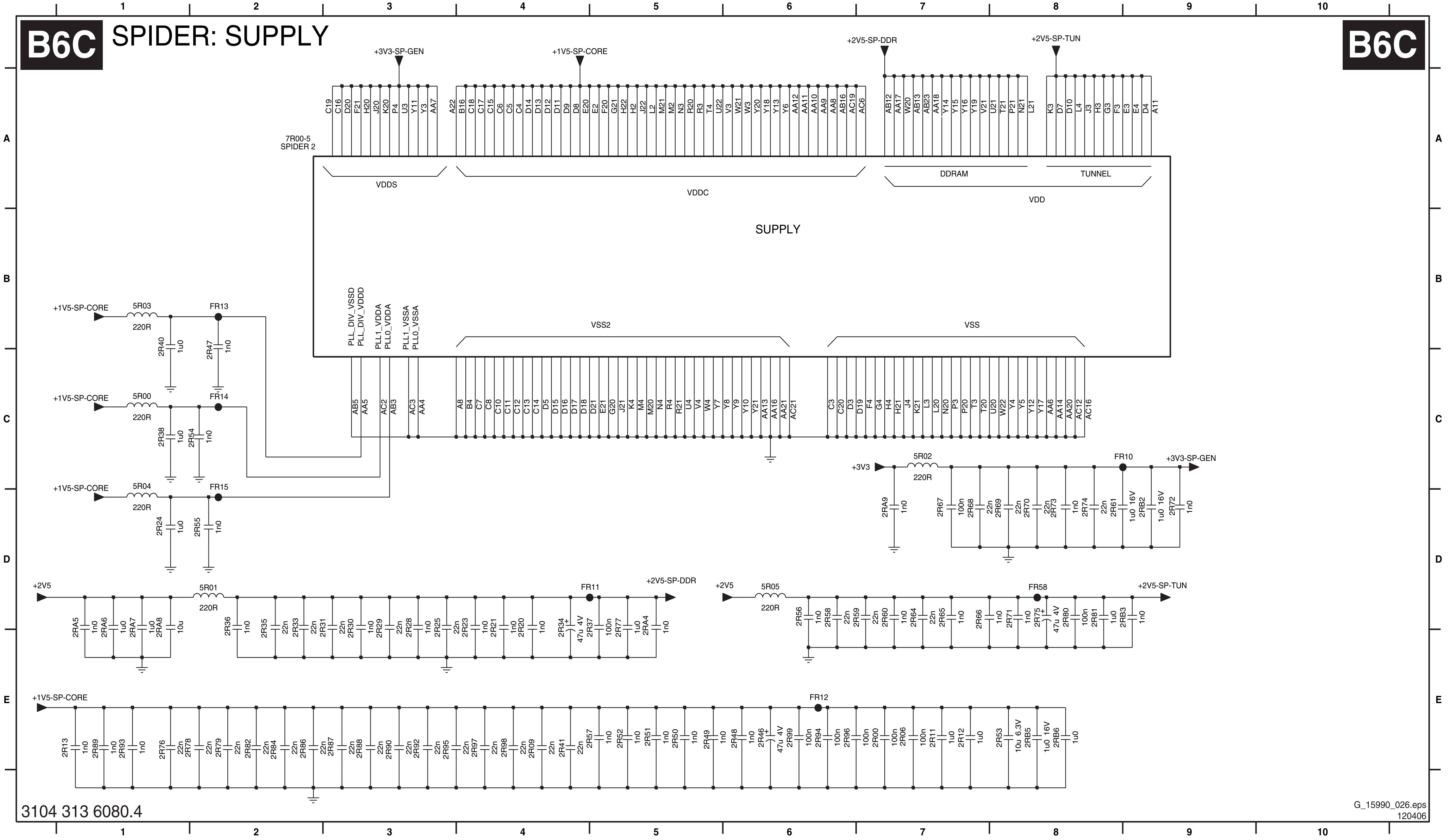
SSB: Spider: Supply

2R00 E7
2R06 E7
2R09 E4
2R11 E7
2R12 E7
2R13 E1
2R20 D4
2R21 D4
2R23 D4
2R24 D1
2R25 D3
2R28 D3
2R29 D3
2R30 D3
2R31 D2
2R33 D2
2R34 D4
2R35 D2
2R36 D2
2R37 D5
2R38 C1
2R40 B1
2R41 E4
2R46 E6
2R47 C2
2R48 E6
2R49 E5
2R50 E5
2R51 E5
2R52 E5
2R53 E8
2R54 C1
2R55 D2
2R56 D6
2R57 E4
2R58 D6
2R59 D7
2R60 D7
2R61 D8
2R64 D7
2R65 D7
2R66 D7
2R67 D7
2R68 D7
2R69 D8
2R70 D8
2R71 D8
2R72 D9
2R73 D8
2R74 D8
2R75 D8
2R76 E1
2R77 D5
2R78 E2
2R79 E2
2R80 D8
2R81 D8
2R82 E2
2R84 E2
2R86 E2
2R87 E3
2R88 E3
2R89 E1
2R90 E3
2R92 E3
2R93 E1
2R94 E6
2R95 E3
2R96 E6
2R97 E4
2R98 E4
2R99 E6
2RA4 D5
2RA5 D1
2RA6 D1
2RA7 D1
2RA8 D1
2RA9 D7
2RB2 D9
2RB3 D9
2RB5 E8
2RB6 E8
5R00 C1
5R01 D2
5R02 C7
5R03 B1
5R04 C1
5R05 D6
7R00-5 A2
FR10 C9
FR11 D5
FR12 E6
FR13 B2
FR14 C2
FR15 D2
FR58 D8


B6C
SPIDER: SUPPLY
B6C
1 2 3 4 5 6 7 8 9 10
A B C D E
+3V3-SP-GEN
+1V5-SP-CORE
+2V5-SP-DDR
+2V5-SP-TUN
7R00-5
SPIDER 2
C19 C16 D20 F21 H20 J20 K20 P4 U3 Y11 Y3 AA7
A22 B16 C18 C17 C15 C6 C5 C4 D14 D13 D12 D11 D9 D8 E20 E2 F20 G21 H22 H2 J22 L2 M21 M2 N3 R20 R3 T4 U22 V3 W21 W3 Y20 Y18 Y13 Y6 AA12 AA11 AA10 AA9 AA8 AB16 AC19 AC6
AB12 AA17 W20 AB13 AA18 Y14 Y15 Y16 Y19 V21 U21 T21 P21 N21 L21
K3 D7 D10 L4 J3 H3 G3 F3 E3 E4 D4 A11
VDDS
VDDC
DDRAM
TUNNEL
VDD
SUPPLY
PLL_DIV_VSSD
PLL_DIV_VDDD
PLL1_VDDA
PLL0_VDDA
PLL1_VSSA
PLL0_VSSA
VSS2
VSS
AB5 AA5 AC2 AB3 AC3 AA4
A8 B4 C7 C8 C10 C11 C12 C13 C14 D5 D15 D16 D17 D18 D21 E21 G20 J21 K4 M4 M20 N4 R4 R21 U4 V4 W4 Y7 Y8 Y9 Y10 Y21 AA13 AA16 AA21 AC21
C3 C20 D3 D19 F4 G4 H4 H21 J4 K21 L3 L20 N20 P3 P20 T3 T20 U20 W22 Y4 Y5 Y12 Y17 AA6 AA14 AA20 AC12 AC16
+1V5-SP-CORE 5R03 220R FR13
2R40 1u0 2R47 1n0
+1V5-SP-CORE 5R00 220R FR14
2R38 1u0 2R54 1n0
+1V5-SP-CORE 5R04 220R FR15
2R24 1u0 2R55 1n0
+3V3 5R02 220R FR10 +3V3-SP-GEN
2RA9 1n0 2R67 100n 2R68 22n 2R69 22n 2R70 22n 2R73 1n0 2R74 22n 2R61 1u0 16V 2RB2 1u0 16V 2R72 1n0
+2V5 5R01 220R FR11 +2V5-SP-DDR
2RA5 1n0 2RA6 1u0 2RA7 1u0 2RA8 10u
2R36 1n0 2R35 22n 2R33 22n 2R31 22n 2R30 1n0 2R29 22n 2R28 1n0 2R25 22n 2R23 1n0 2R21 1n0 2R20 1n0 2R34 47u 4V 2R37 100n 2R77 1u0 2RA4 1n0
+2V5 5R05 220R FR58 +2V5-SP-TUN
2R56 1n0 2R58 22n 2R59 22n 2R60 1n0 2R64 22n 2R65 1n0 2R66 1n0 2R71 1n0 2R75 47u 4V 2R80 100n 2R81 1u0 2RB3 1n0
+1V5-SP-CORE FR12
2R13 1n0 2R89 1n0 2R93 1n0 2R76 22n 2R78 22n 2R79 22n 2R82 22n 2R84 22n 2R86 22n 2R87 22n 2R88 22n 2R90 22n 2R92 22n 2R95 22n 2R97 22n 2R98 22n 2R09 22n 2R41 22n 2R57 1n0 2R52 1n0 2R51 1n0 2R50 1n0 2R49 1n0 2R48 1n0 2R46 47u 4V 2R99 100n 2R94 100n 2R96 100n 2R00 100n 2R06 100n 2R11 1u0 2R12 1u0 2R53 10u 6.3V 2RB5 1u0 16V 2RB6 1u0
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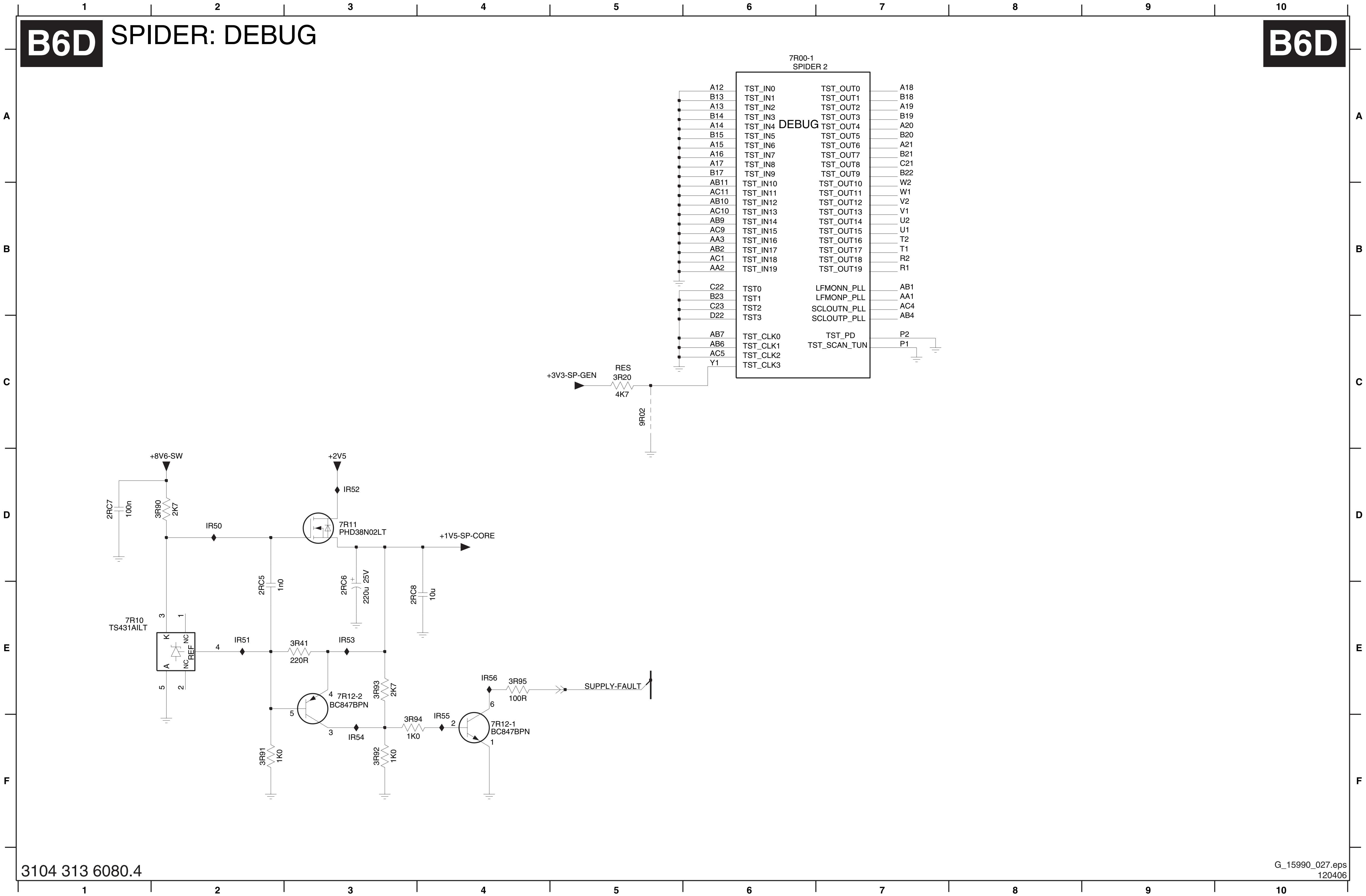
SSB: Spider: Debug


B6D
SPIDER: DEBUG
B6D
7R00-1
SPIDER 2
DEBUG
A12 TST_IN0
B13 TST_IN1
A13 TST_IN2
B14 TST_IN3
A14 TST_IN4
B15 TST_IN5
A15 TST_IN6
A16 TST_IN7
A17 TST_IN8
B17 TST_IN9
AB11 TST_IN10
AC11 TST_IN11
AB10 TST_IN12
AC10 TST_IN13
AB9 TST_IN14
AC9 TST_IN15
AA3 TST_IN16
AB2 TST_IN17
AC1 TST_IN18
AA2 TST_IN19
C22 TST0
B23 TST1
C23 TST2
D22 TST3
AB7 TST_CLK0
AB6 TST_CLK1
AC5 TST_CLK2
Y1 TST_CLK3
TST_OUT0 A18
TST_OUT1 B18
TST_OUT2 A19
TST_OUT3 B19
TST_OUT4 A20
TST_OUT5 B20
TST_OUT6 A21
TST_OUT7 B21
TST_OUT8 C21
TST_OUT9 B22
TST_OUT10 W2
TST_OUT11 W1
TST_OUT12 V2
TST_OUT13 V1
TST_OUT14 U2
TST_OUT15 U1
TST_OUT16 T2
TST_OUT17 T1
TST_OUT18 R2
TST_OUT19 R1
LFMONN_PLL AB1
LFMONP_PLL AA1
SCLOUTN_PLL AC4
SCLOUTP_PLL AB4
TST_PD P2
TST_SCAN_TUN P1
+3V3-SP-GEN
RES
3R20
4K7
9R02
+8V6-SW
+2V5
IR52
2RC7
100n
3R90
2K7
IR50
7R11
PHD38N02LT
+1V5-SP-CORE
2RC5
1n0
2RC6
220u 25V
2RC8
10u
7R10
TS431AILT
K
NC
A
NC
REF
3
1
5
2
4
IR51
3R41
220R
IR53
3R93
2K7
7R12-2
BC847BPN
4
5
3
IR54
3R94
1K0
IR55
2
IR56
3R95
100R
6
7R12-1
BC847BPN
1
SUPPLY-FAULT
3R91
1K0
3R92
1K0
1 2 3 4 5 6 7 8 9 10
A B C D E F
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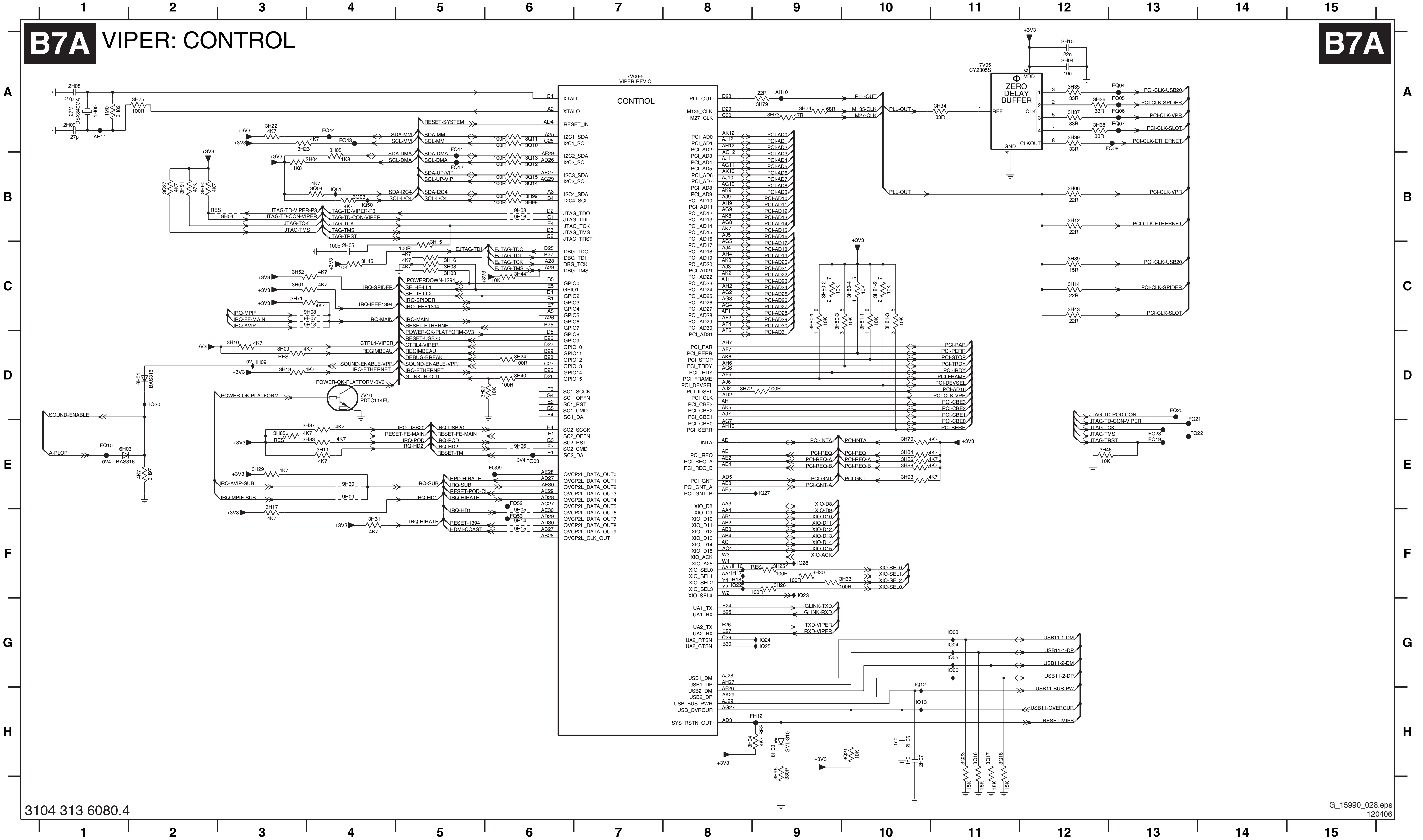
2RC5	E2
2RC6	E3
2RC7	D1
2RC8	E3
3R20	C5
3R41	E3
3R90	D2
3R91	F2
3R92	F3
3R93	E3
3R94	F3
3R95	E4
7R00-1	A6
7R10	E1
7R11	D3
7R12-1	F4
7R12-2	E3
9R02	C5
IR50	D2
IR51	E2
IR52	D3
IR53	E3
IR54	F3
IR55	F4
IR56	E4

SSB: Spider: Control

1H00	A1
2H04	A12
2H05	C4
2H06	H10
2H07	H10
2H08	A1
2H09	A1
2H10	A12
3H01	C3
3H03	C5
3H04	B4
3H05	A4
3H06	B12
3H08	C5
3H09	D3
3H10	D3
3H11	E4
3H12	B12
3H13	D3
3H14	C12
3H15	C5
3H16	C5
3H17	E3
3H22	A3
3H23	A3
3H24	D6
3H25	F9
3H26	F9
3H27	D5
3H29	E3
3H30	F9
3H31	F4
3H33	F10
3H34	A11
3H35	A12
3H36	A12
3H37	A12
3H38	A12
3H39	A12
3H40	D6
3H43	C12
3H44	C6
3H45	C4
3H46	E12
3H52	C3
3H70	E10
3H71	C3
3H72	D8
3H73	A9
3H74	A9
3H75	A2
3H79	A9
3H80-1	C9
3H80-2	C9
3H80-3	C9
3H80-4	C10
3H81-1	C10
3H81-2	C10
3H81-3	C10
3H82	A1
3H83	E4
3H84	E10
3H85	E3
3H86	E10
3H87	E4
3H88	E10
3H89	C12
3H90	B2
3H91	B2
3H93	E10
3H94	H8
3H95	H9
3H97	E2
3H98	B6
3H99	B6
3Q03	B4
3Q04	B4
3Q10	A6
3Q11	A6
3Q12	B6
3Q13	B6
3Q14	B6
3Q15	B6
3Q16	H11
3Q17	H11
3Q18	H11
3Q21	H10
3Q23	H11
3Q27	B2
6H00	H9
6H01	D2
6H03	E1
7V00-5	A7
7V05	A11
7V10	D4
9H03	B6
9H04	B3
9H05	F6
9H06	E6
9H07	C4
9H08	C4
9H09	E4
9H13	C4
9H14	F6
9H15	F6
9H16	B6
9H30	E4
AH10	A9
AH11	A1
FH12	H9
FQ03	E6
FQ04	A13
FQ05	A13
FQ06	A13
FQ07	A13
FQ08	A13
FQ09	E6
FQ10	E1
FQ11	A5
FQ12	B5
FQ19	E13
FQ20	D13
FQ21	E13
FQ22	E13
FQ23	E13
FQ43	A4
FQ44	A4
FQ52	E6
FQ53	F6
IH09	D3
IH16	F8
IH17	F8
IH18	F8
IQ03	G11
IQ04	G11
IQ05	G11
IQ06	G11
IQ12	G10
IQ13	H10
IQ22	F8
IQ23	F9
IQ24	G9
IQ25	G9
IQ27	E9
IQ28	F9
IQ30	D2
IQ50	B4
IQ51	B4

B7A VIPER: CONTROL


B7A
7V00-5
VIPER REV C
CONTROL
XTALI
XTALO
RESET_IN
I2C1_SDA
I2C1_SCL
I2C2_SDA
I2C2_SCL
I2C3_SDA
I2C3_SCL
I2C4_SDA
I2C4_SCL
JTAG_TDO
JTAG_TDI
JTAG_TCK
JTAG_TMS
JTAG_TRST
DBG_TDO
DBG_TDI
DBG_TCK
DBG_TMS
GPIO0
GPIO1
GPIO2
GPIO3
GPIO4
GPIO5
GPIO6
GPIO7
GPIO8
GPIO9
GPIO10
GPIO11
GPIO12
GPIO13
GPIO14
GPIO15
SC1_SCCK
SC1_OFFN
SC1_RST
SC1_CMD
SC1_DA
SC2_SCCK
SC2_OFFN
SC2_RST
SC2_CMD
SC2_DA
QVCP2L_DATA_OUT0
QVCP2L_DATA_OUT1
QVCP2L_DATA_OUT2
QVCP2L_DATA_OUT3
QVCP2L_DATA_OUT4
QVCP2L_DATA_OUT5
QVCP2L_DATA_OUT6
QVCP2L_DATA_OUT7
QVCP2L_DATA_OUT8
QVCP2L_DATA_OUT9
QVCP2L_CLK_OUT
PLL_OUT
M135_CLK
M27_CLK
PCI_AD0 … PCI_AD31
PCI_PAR
PCI_PERR
PCI_STOP
PCI_TRDY
PCI_IRDY
PCI_FRAME
PCI_DEVSEL
PCI_IDSEL
PCI_CLK
PCI_CBE3
PCI_CBE2
PCI_CBE1
PCI_CBE0
PCI_SERR
INTA
PCI_REQ
PCI_REQ_A
PCI_REQ_B
PCI_GNT
PCI_GNT_A
PCI_GNT_B
XIO_D8 … XIO_D15
XIO_ACK
XIO_A25
XIO_SEL0 … XIO_SEL4
UA1_TX
UA1_RX
UA2_TX
UA2_RX
UA2_RTSN
UA2_CTSN
USB1_DM
USB1_DP
USB2_DM
USB2_DP
USB_BUS_PWR
USB_OVRCUR
SYS_RSTN_OUT
7V05
CY2305S
ZERO DELAY BUFFER
VDD
REF
CLK
CLKOUT
GND
PCI-CLK-USB20
PCI-CLK-SPIDER
PCI-CLK-VPR
PCI-CLK-SLOT
PCI-CLK-ETHERNET
7V10
PDTC114EU
SOUND-ENABLE
A-PLOP
POWER-OK-PLATFORM
RESET-SYSTEM
SDA-MM
SCL-MM
SDA-DMA
SCL-DMA
SDA-UP-VIP
SCL-UP-VIP
SDA-I2C4
SCL-I2C4
JTAG-TD-VIPER-P3
JTAG-TD-CON-VIPER
JTAG-TCK
JTAG-TMS
JTAG-TRST
EJTAG-TDO
EJTAG-TDI
EJTAG-TCK
EJTAG-TMS
IRQ-SPIDER
IRQ-IEEE1394
IRQ-MAIN
IRQ-MPIF
IRQ-FE-MAIN
IRQ-AVIP
POWERDOWN-1394
SEL-IF-LL1
SEL-IF-LL2
RESET-ETHERNET
POWER-OK-PLATFORM-3V3
RESET-USB20
CTRL4-VIPER
REGIMBEAU
DEBUG-BREAK
SOUND-ENABLE-VPR
IRQ-ETHERNET
GLINK-IR-OUT
IRQ-USB20
RESET-FE-MAIN
IRQ-POD
IRQ-HD2
RESET-TM
IRQ-AVIP-SUB
IRQ-MPIF-SUB
IRQ-SUB
IRQ-HD1
IRQ-HIRATE
HPD-HIRATE
RESET-POD-CI
RESET-1394
HDMI-COAST
PLL-OUT
M135-CLK
M27-CLK
PCI-INTA
PCI-REQ
PCI-REQ-A
PCI-REQ-B
PCI-GNT
PCI-GNT-A
XIO-ACK
GLINK-TXD
GLINK-RXD
TXD-VIPER
RXD-VIPER
USB11-1-DM
USB11-1-DP
USB11-2-DM
USB11-2-DP
USB11-BUS-PW
USB11-OVERCUR
RESET-MIPS
JTAG-TD-POD-CON
JTAG-TD-CON-VIPER
+3V3
BAS316
SML-310

3104 313 6080.4

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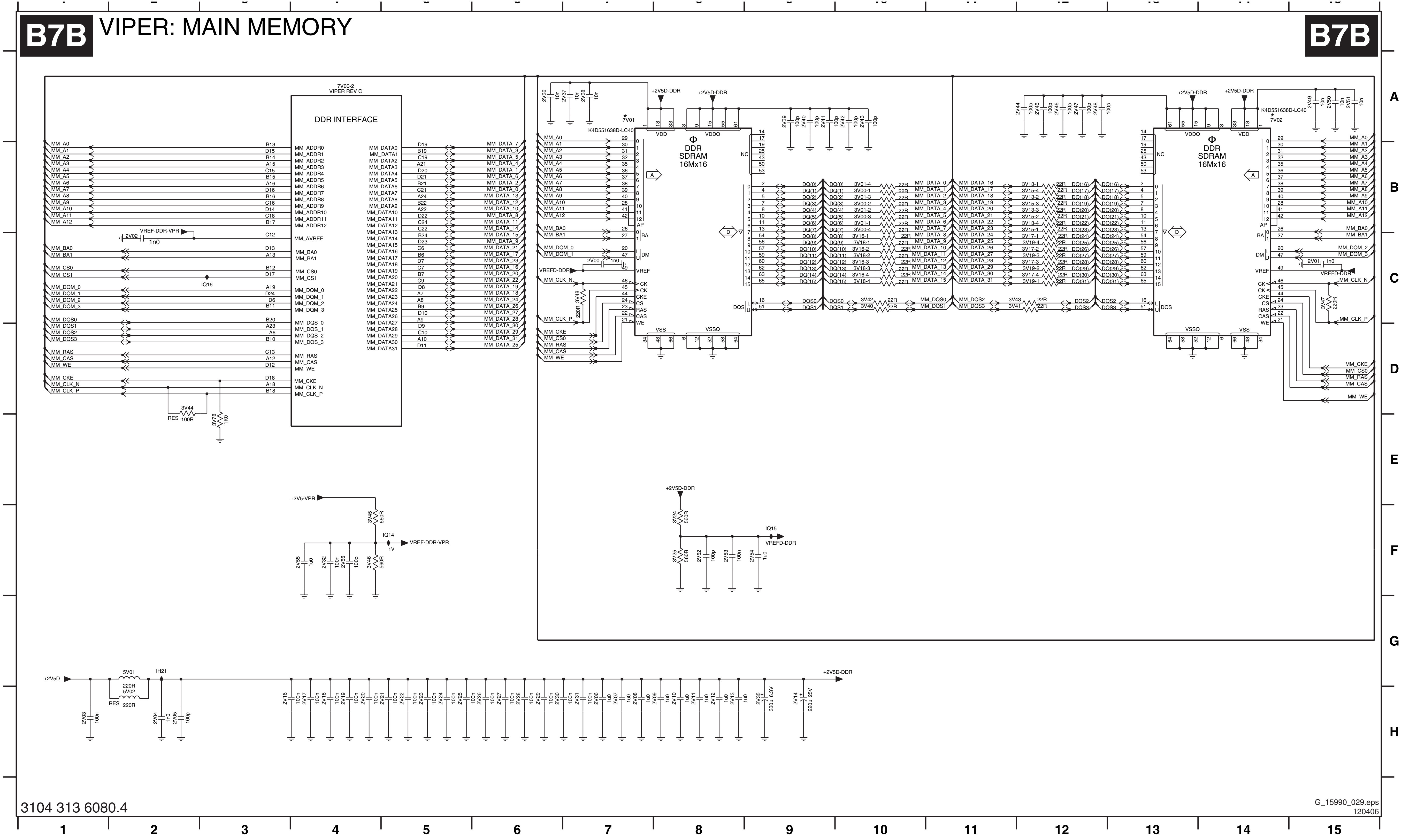
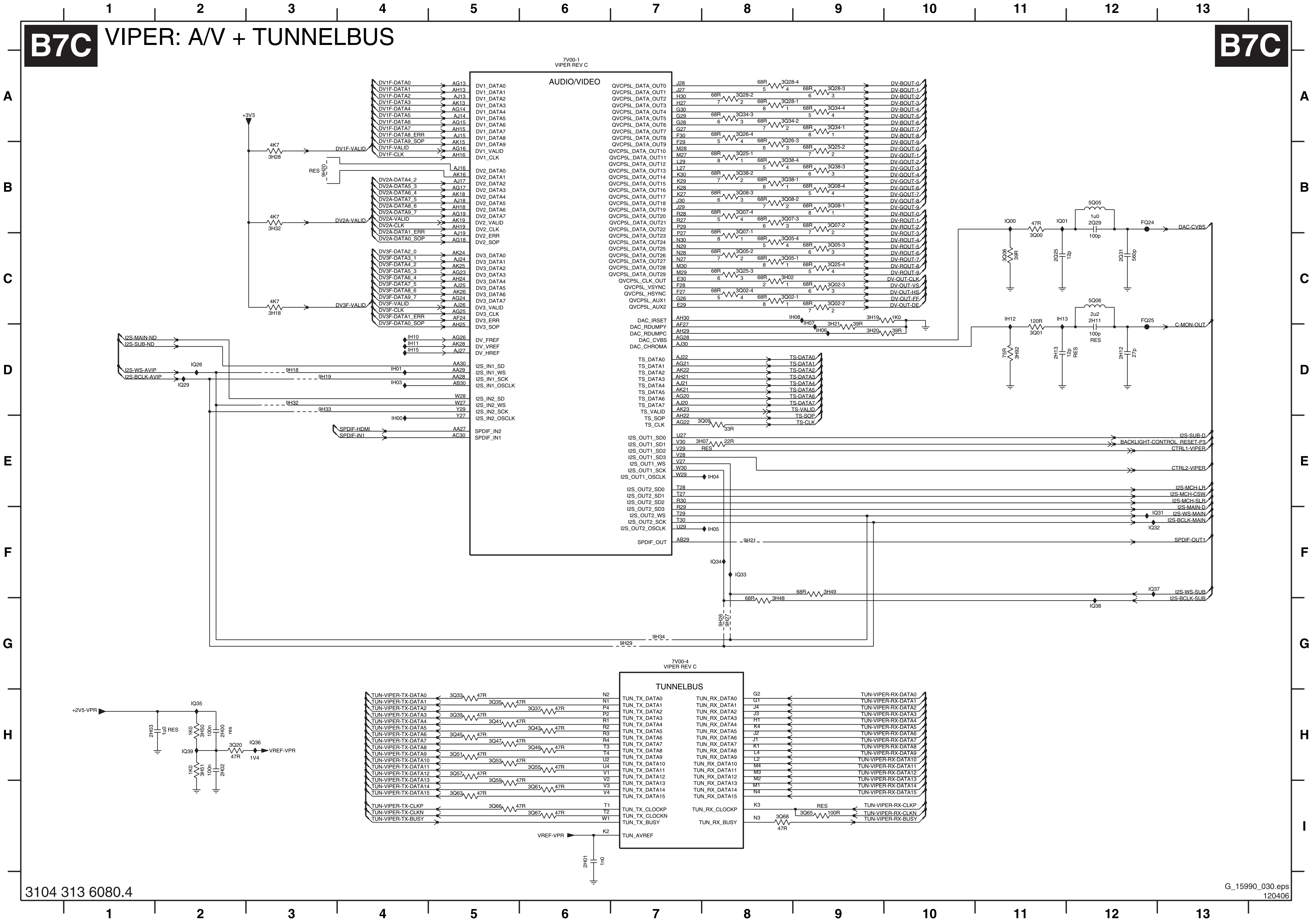
SSB: Spider: Main Memory


B7B
VIPER: MAIN MEMORY
B7B
7V00-2
VIPER REV C
DDR INTERFACE
DDR SDRAM 16Mx16
K4D551638D-LC40
7V01
7V02
+2V5D-DDR
+2V5-VPR
VREF-DDR-VPR
VREFD-DDR
+2V5D
5V01
5V02
IH21
IQ14
IQ15
IQ16
3104 313 6080.4
G_15990_029.eps
120406
A
B
C
D
E
F
G
H
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

2V01	C15
2V02	C2
2V03	H1
2V04	H2
2V05	H2
2V06	H7
2V07	H7
2V08	H7
2V09	H8
2V10	H8
2V11	H8
2V12	H8
2V13	H8
2V14	H9
2V16	H3
2V17	H4
2V18	H4
2V19	H4
2V20	H4
2V21	H5
2V22	H5
2V23	H5
2V24	H5
2V25	H5
2V26	H6
2V27	H6
2V28	H6
2V29	H6
2V30	H6
2V31	H7
2V32	F4
2V35	H9
2V36	A6
2V37	A7
2V38	A7
2V39	A9
2V40	A9
2V41	A9
2V42	A10
2V43	A10
2V44	A12
2V45	A12
2V46	A12
2V47	A12
2V48	A12
2V49	A15
2V50	A15
2V51	A15
2V52	F8
2V53	F8
2V54	F9
2V55	F4
2V56	F4
3V00-1	B10
3V00-2	B10
3V00-3	B10
3V00-4	B10
3V01-1	B10
3V01-2	B10
3V01-3	B10
3V01-4	B10
3V13-1	B12
3V13-2	B12
3V13-3	B12
3V13-4	B12
3V15-1	B12
3V15-2	B12
3V15-3	B12
3V15-4	B12
3V16-1	C10
3V16-2	C10
3V16-3	C10
3V16-4	C10
3V17-1	C12
3V17-2	C12
3V17-3	C12
3V17-4	C12
3V18-1	C10
3V18-2	C10
3V18-3	C10
3V18-4	C10
3V19-1	C12
3V19-2	C12
3V19-3	C12
3V19-4	C12
3V24	F8
3V25	F8
3V40	C10
3V41	C11
3V42	C10
3V43	C11
3V44	D2
3V45	F4
3V46	F4
3V47	C15
3V48	C7
3V78	E3
5V01	G2
5V02	H2
7V00-2	A4
7V01	A7
7V02	A14
IH21	G2
IQ14	F5
IQ15	F9

SSB: Viper: A/V + Tunnelbus


B7C
VIPER: A/V + TUNNELBUS
B7C
7V00-1
VIPER REV C
AUDIO/VIDEO
DV1F-DATA0
DV1F-VALID
DV1F-CLK
DV2A-VALID
DV3F-VALID
+3V3
4K7
3H28
3H32
3H18
RES
9H20
I2S-MAIN-ND
I2S-SUB-ND
I2S-WS-AVIP
I2S-BCLK-AVIP
IQ26
IQ29
9H18
9H19
9H32
9H33
IH01
IH03
IH00
IH10
IH11
IH15
SPDIF-HDMI
SPDIF-IN1
DV1_DATA0
DV1_VALID
DV1_CLK
DV2_DATA0
DV2_CLK
DV2_ERR
DV2_SOP
DV3_DATA0
DV3_VALID
DV3_CLK
DV3_ERR
DV3_SOP
DV_FREF
DV_VREF
DV_HREF
I2S_IN1_SD
I2S_IN1_WS
I2S_IN1_SCK
I2S_IN1_OSCLK
I2S_IN2_SD
I2S_IN2_WS
I2S_IN2_SCK
I2S_IN2_OSCLK
SPDIF_IN2
SPDIF_IN1
QVCP5L_DATA_OUT0
QVCP5L_CLK_OUT
QVCP5L_VSYNC
QVCP5L_HSYNC
QVCP5L_AUX1
QVCP5L_AUX2
DAC_IRSET
DAC_RDUMPY
DAC_RDUMPC
DAC_CVBS
DAC_CHROMA
TS_DATA0
TS_VALID
TS_SOP
TS_CLK
I2S_OUT1_SD0
I2S_OUT1_WS
I2S_OUT1_SCK
I2S_OUT1_OSCLK
I2S_OUT2_SD0
I2S_OUT2_WS
I2S_OUT2_SCK
I2S_OUT2_OSCLK
SPDIF_OUT
68R
DV-BOUT-0
DV-GOUT-0
DV-ROUT-0
DV-OUT-CLK
DV-OUT-VS
DV-OUT-HS
DV-OUT-FF
DV-OUT-DE
IH08
IH07
IH06
3H19
1K0
3H21
3H20
39R
TS-DATA0
TS-VALID
TS-SOP
TS-CLK
3Q09
33R
3H07
22R
RES
IH04
IH05
IQ00
47R
3Q00
IQ01
5Q05
1u0
2Q29
100p
FQ24
DAC-CVBS
3Q06
39R
2Q25
12p
2Q31
560p
IH12
120R
3Q01
IH13
5Q06
2u2
2H11
100p
RES
FQ25
C-MON-OUT
75R
3H92
2H13
12p
RES
2H12
27p
I2S-SUB-D
BACKLIGHT-CONTROL_RESET-P3
CTRL1-VIPER
CTRL2-VIPER
I2S-MCH-LR
I2S-MCH-CSW
I2S-MCH-SLR
I2S-MAIN-D
I2S-WS-MAIN
I2S-BCLK-MAIN
IQ31
IQ32
9H21
SPDIF-OUT1
IQ34
IQ33
3H49
3H48
IQ37
IQ38
I2S-WS-SUB
I2S-BCLK-SUB
9H26
9H27
9H34
9H29
7V00-4
VIPER REV C
TUNNELBUS
TUN-VIPER-TX-DATA0
TUN-VIPER-TX-CLKP
TUN-VIPER-TX-CLKN
TUN-VIPER-TX-BUSY
TUN_TX_DATA0
TUN_TX_CLOCKP
TUN_TX_CLOCKN
TUN_TX_BUSY
TUN_AVREF
TUN_RX_DATA0
TUN_RX_CLOCKP
TUN_RX_BUSY
TUN-VIPER-RX-DATA0
TUN-VIPER-RX-CLKP
TUN-VIPER-RX-CLKN
TUN-VIPER-RX-BUSY
3Q65
100R
3Q68
47R
VREF-VPR
2H01
1n0
+2V5-VPR
IQ35
2H03
1u0
RES
1K0
3H50
100n
2H00
res
IQ39
3Q20
47R
IQ36
1V4
VREF-VPR
3H51
2H02
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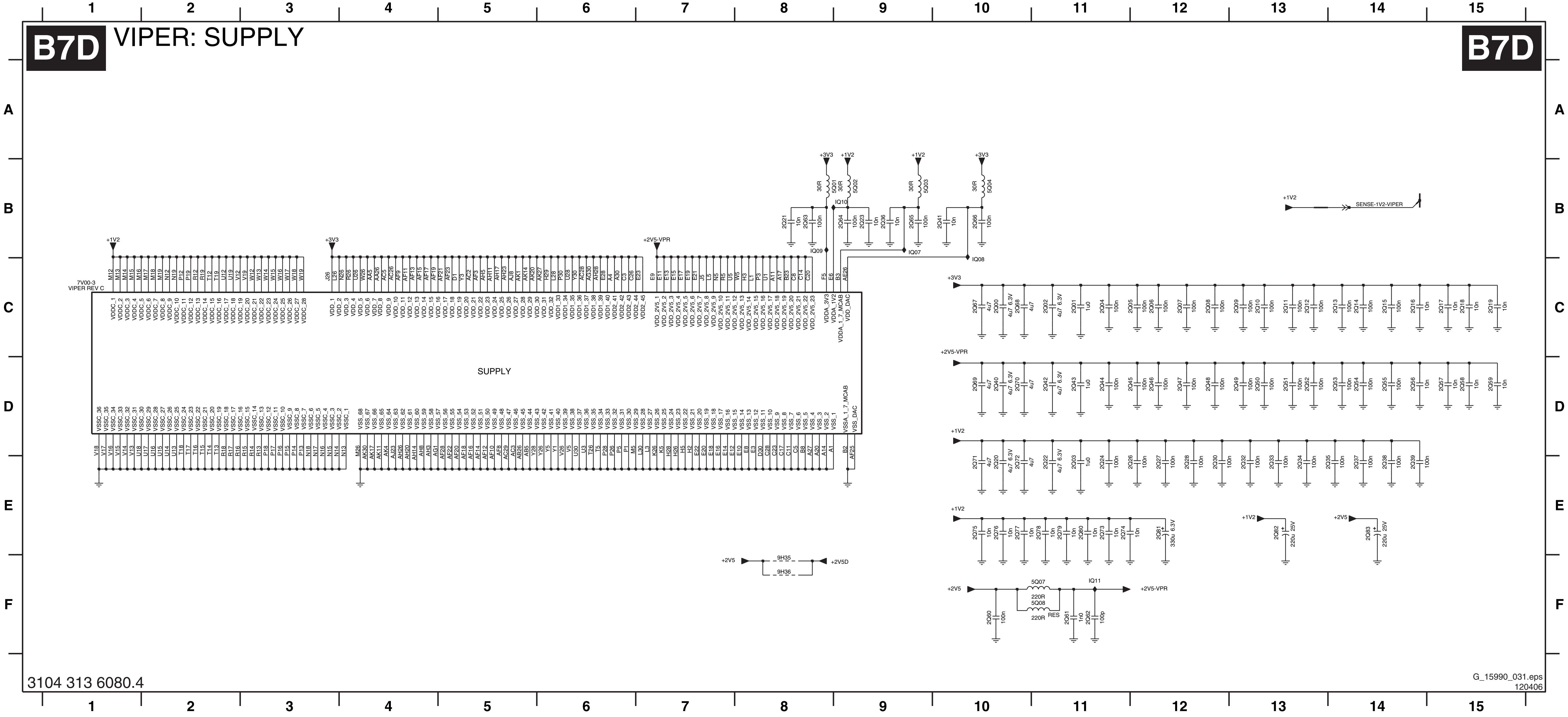
2H00	H2
2H01	I6
2H02	H2
2H03	H1
2H11	C12
2H12	D12
2H13	D11
2Q25	C11
2Q29	B12
2Q31	C12
3H02	C8
3H07	E8
3H18	C3
3H19	C9
3H20	D9
3H21	D9
3H28	B3
3H32	B3
3H48	G8
3H49	F9
3H50	H2
3H51	H2
3H92	D11
3Q00	C11
3Q01	D11
3Q02-1	C8
3Q02-2	C9
3Q02-3	C9
3Q02-4	C8
3Q05-1	C8
3Q05-2	C8
3Q05-3	C9
3Q05-4	C8
3Q06	C11
3Q07-1	B8
3Q07-2	B9
3Q07-3	B8
3Q07-4	B8
3Q08-1	B9
3Q08-2	B8
3Q08-3	B8
3Q08-4	B9
3Q09	E8
3Q20	H2
3Q25-1	B8
3Q25-2	B9
3Q25-3	C8
3Q25-4	C9
3Q26-3	A8
3Q26-4	A8
3Q28-1	A8
3Q28-2	A8
3Q28-3	A9
3Q28-4	A8
3Q33	H5
3Q34-1	A9
3Q34-2	A8
3Q34-3	A8
3Q34-4	A9
3Q35	H5
3Q37	H6
3Q38-1	B8
3Q38-2	B8
3Q38-3	B9
3Q38-4	B8
3Q39	H5
3Q41	H5
3Q43	H6
3Q45	H5
3Q47	H5
3Q49	H6
3Q51	H5
3Q53	H5
3Q55	H6
3Q57	H5
3Q59	I5
3Q61	I6
3Q63	I5
3Q65	I9
3Q66	I5
3Q67	I6
3Q68	I8
5Q05	B12
5Q06	C12
7V00-1	A6
7V00-4	G7
9H18	D3
9H19	D3
9H20	B3
9H21	F8
9H26	G8
9H27	G8
9H29	G7
9H32	D3
9H33	D3
9H34	G7
FQ24	B12
FQ25	C12
IH00	E4
IH01	D4
IH03	D4
IH04	E8
IH05	F8
IH06	D9
IH07	C9
IH08	C9
IH10	D4
IH11	D4
IH12	C11
IH13	C11
IH15	D4
IQ00	B11
IQ01	B11
IQ26	D2
IQ29	D2
IQ31	F13
IQ32	F12
IQ33	F8
IQ34	F8
IQ35	H2
IQ36	H3
IQ37	F12
IQ38	G12
IQ39	H2

SSB: Viper: Supply

2Q00	C10
2Q01	C11
2Q02	C11
2Q03	E11
2Q04	C11
2Q05	C12
2Q06	C12
2Q07	C12
2Q08	C12
2Q09	C13
2Q10	C13
2Q11	C13
2Q12	C13
2Q13	C14
2Q14	C14
2Q15	C14
2Q16	C14
2Q17	C15
2Q18	C15
2Q19	C15
2Q20	E10
2Q21	B8
2Q22	E11
2Q23	B9
2Q24	E11
2Q26	E12
2Q27	E12
2Q28	E12
2Q30	E12
2Q32	E13
2Q33	E13
2Q34	E13
2Q35	E14
2Q36	B9
2Q37	E14
2Q38	E14
2Q39	E14
2Q40	D10
2Q41	B10
2Q42	D11
2Q43	D11
2Q44	D11
2Q45	D12
2Q46	D12
2Q47	D12
2Q48	D12
2Q49	D13
2Q50	D13
2Q51	D13
2Q52	D13
2Q53	D14
2Q54	D14
2Q55	D14
2Q56	D14
2Q57	D15
2Q58	D15
2Q59	D15
2Q60	F10
2Q61	F11
2Q62	F11
2Q63	B8
2Q64	B9
2Q65	B9
2Q66	B10
2Q67	C10
2Q68	C10
2Q69	D10
2Q70	D10
2Q71	E10
2Q72	E10
2Q73	E11
2Q74	E11
2Q75	E10
2Q76	E10
2Q77	E10
2Q78	E11
2Q79	E11
2Q80	E11
2Q81	E12
2Q82	E13
2Q83	E14
5Q01	B8
5Q02	B9
5Q03	B9
5Q04	B10
5Q07	F11
5Q08	F11
7V00-3	C1
9H35	F8
9H36	F8
IQ07	B9
IQ08	C10
IQ09	B8
IQ10	B9
IQ11	F11


B7D
VIPER: SUPPLY
B7D
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
A
B
C
D
E
F
7V00-3
VIPER REV C
SUPPLY
+1V2
+3V3
+2V5-VPR
SENSE-1V2-VIPER
5Q01
5Q02
5Q03
5Q04
30R
IQ07
IQ08
IQ09
IQ10
IQ11
+2V5
+2V5D
9H35
9H36
5Q07
5Q08
220R
RES
220u 25V
330u 6.3V
4u7 6.3V
100n
10n
1u0
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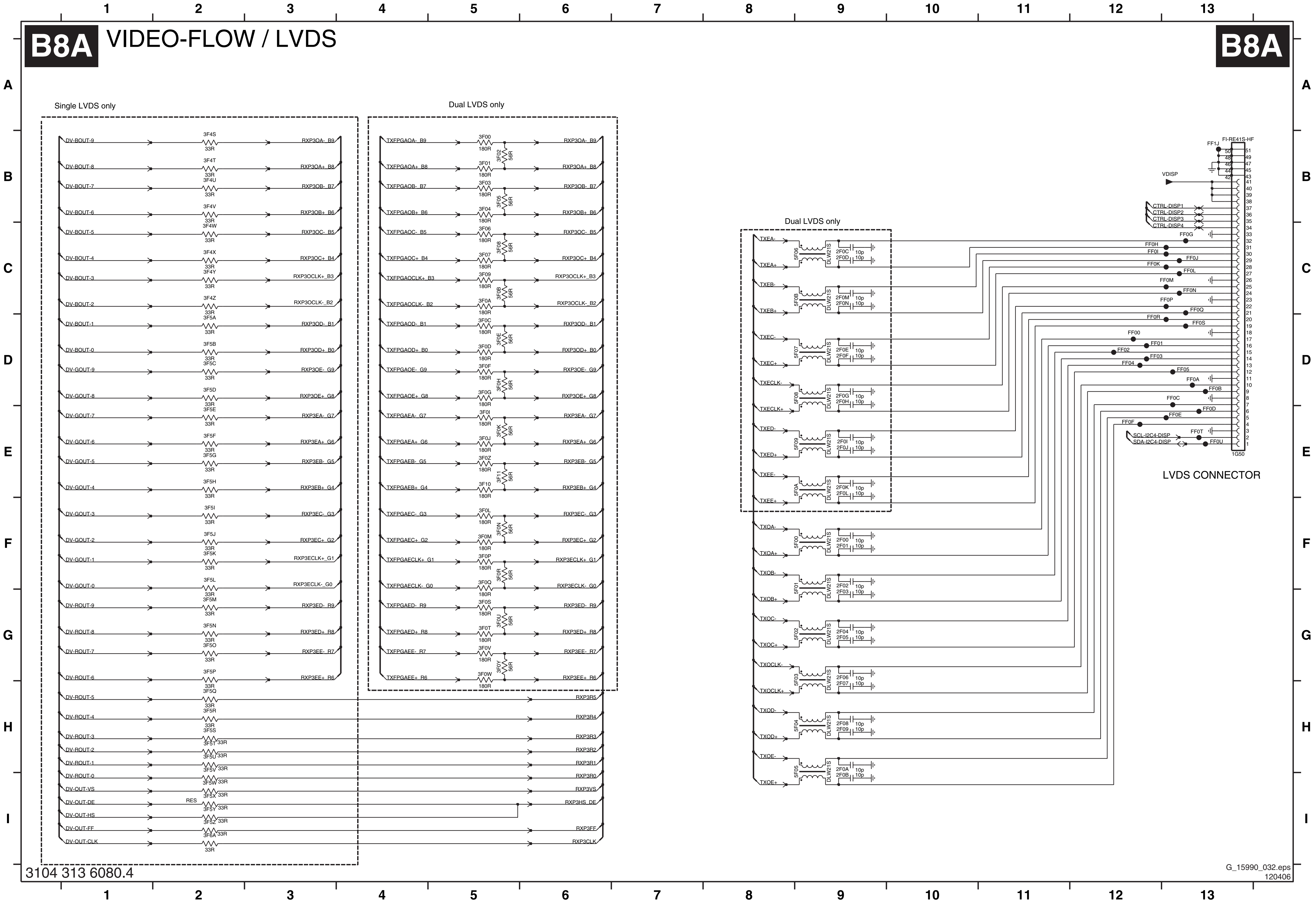
SSB: Video Flow / LVDS


B8A
VIDEO-FLOW / LVDS
B8A
Single LVDS only
Dual LVDS only
Dual LVDS only
FI-RE41S-HF
FF1J
VDISP
CTRL-DISP1
CTRL-DISP2
CTRL-DISP3
CTRL-DISP4
SCL-I2C4-DISP
SDA-I2C4-DISP
1G50
LVDS CONNECTOR
DV-BOUT-9
RXP3OA- B9
TXFPGAOA- B9
TXEA-
TXEA+
TXOA-
TXOA+
DLW21S
10p
33R
180R
56R
RES
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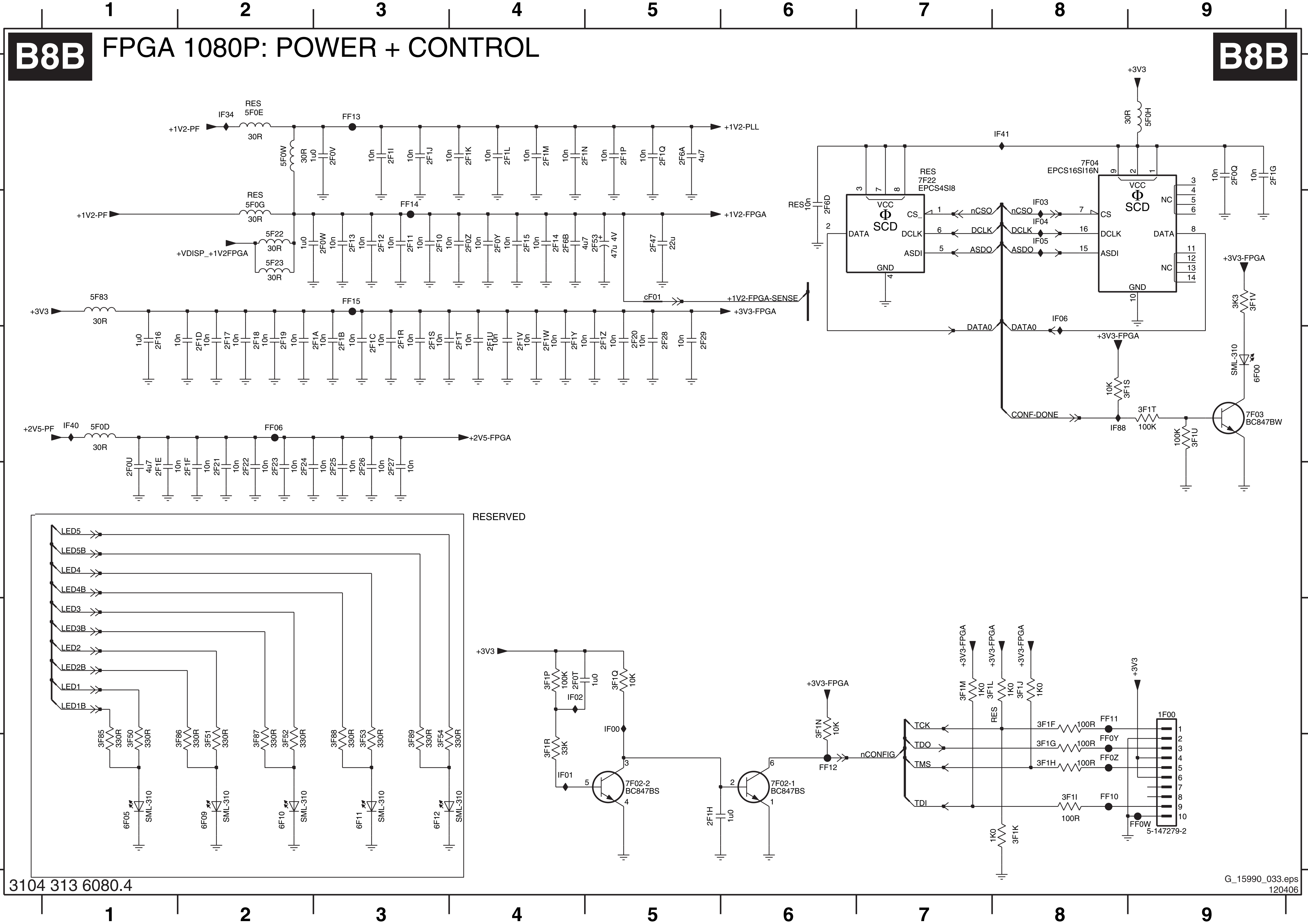
1G50	E13
2F00	F9
2F01	F9
2F02	F9
2F03	G9
2F04	G9
2F05	G9
2F06	G9
2F07	H9
2F08	H9
2F09	H9
2F0A	H9
2F0B	I9
2F0C	C9
2F0D	C9
2F0E	D9
2F0F	D9
2F0G	D9
2F0H	D9
2F0I	E9
2F0J	E9
2F0K	E9
2F0L	E9
2F0M	C9
2F0N	C9
3F00	B5
3F01	B5
3F02	B5
3F03	B5
3F04	B5
3F05	B5
3F06	C5
3F07	C5
3F08	C5
3F09	C5
3F0A	C5
3F0B	C5
3F0C	D5
3F0D	D5
3F0E	D5
3F0F	D5
3F0G	D5
3F0H	D5
3F0I	E5
3F0J	E5
3F0K	E5
3F0L	F5
3F0M	F5
3F0N	F5
3F0P	F5
3F0Q	F5
3F0R	F5
3F0S	G5
3F0T	G5
3F0U	G5
3F0V	G5
3F0W	G5
3F0Y	G5
3F0Z	E5
3F10	E5
3F11	E5
3F4S	B2
3F4T	B2
3F4U	B2
3F4V	B2
3F4W	C2
3F4X	C2
3F4Y	C2
3F4Z	C2
3F5A	D2
3F5B	D2
3F5C	D2
3F5D	D2
3F5E	E2
3F5F	E2
3F5G	E2
3F5H	E2
3F5I	F2
3F5J	F2
3F5K	F2
3F5L	F2
3F5M	G2
3F5N	G2
3F5O	G2
3F5P	G2
3F5Q	H2
3F5R	H2
3F5S	H2
3F5T	H2
3F5U	H2
3F5V	H2
3F5W	I2
3F5X	I2
3F5Y	I2
3F5Z	I2
3F6A	I2
5F00	F9
5F01	F9
5F02	G9
5F03	G9
5F04	H9
5F05	H9
5F06	C9
5F07	D9
5F08	D9
5F09	E9
5F0A	E9
5F0B	C9
FF00	D12
FF01	D12
FF02	D12
FF03	D12
FF04	D12
FF05	D13
FF0A	D13
FF0B	D13
FF0C	D13
FF0D	E13
FF0E	E13
FF0F	E12
FF0G	C13
FF0H	C12
FF0I	C12
FF0J	C13
FF0K	C12
FF0L	C13
FF0M	C13
FF0N	C13
FF0P	C13
FF0Q	C13
FF0R	D12
FF0S	D13
FF0T	E13
FF0U	E13
FF1J	B13

SSB: FPGA 1080P: Power & Control


B8B
FPGA 1080P: POWER + CONTROL
1 2 3 4 5 6 7 8 9
A B C D E F
+1V2-PF
IF34
RES 5F0E 30R
FF13
+1V2-PLL
5F0W 30R
+1V2-PF
RES 5F0G 30R
FF14
+1V2-FPGA
+VDISP_+1V2FPGA
5F22 30R
5F23 30R
cF01
+1V2-FPGA-SENSE
+3V3
5F83 30R
FF15
+3V3-FPGA
+2V5-PF
IF40
5F0D 30R
FF06
+2V5-FPGA
RESERVED
LED5
LED5B
LED4
LED4B
LED3
LED3B
LED2
LED2B
LED1
LED1B
3F85 3F50 3F86 3F51 3F87 3F52 3F88 3F53 3F89 3F54 330R
6F05 6F09 6F10 6F11 6F12 SML-310
+3V3
IF41
30R 5F0H
RES 7F22 EPCS4SI8
7F04 EPCS16SI16N
VCC SCD DATA CS_ DCLK ASDI GND
VCC SCD CS DCLK ASDI DATA NC GND
nCSO
DCLK
ASDO
IF03 IF04 IF05 IF06
DATA0
+3V3-FPGA
10K 3F1S
3F1T 100K
IF88
CONF-DONE
100K 3F1U
7F03 BC847BW
3K3 3F1V
SML-310 6F00
+3V3
3F1P 100K
2F0T 1u0
IF02
3F1Q 10K
IF00
3F1R 33K
IF01
7F02-2 BC847BS
7F02-1 BC847BS
2F1H 1u0
+3V3-FPGA
3F1N 10K
FF12
nCONFIG
3F1M 1K0
3F1L 1K0
3F1J 1K0
RES
TCK TDO TMS TDI
3F1F 100R
3F1G 100R
3F1H 100R
3F1I 100R
FF11 FF0Y FF0Z FF10 FF0W
3F1K 1K0
1F00
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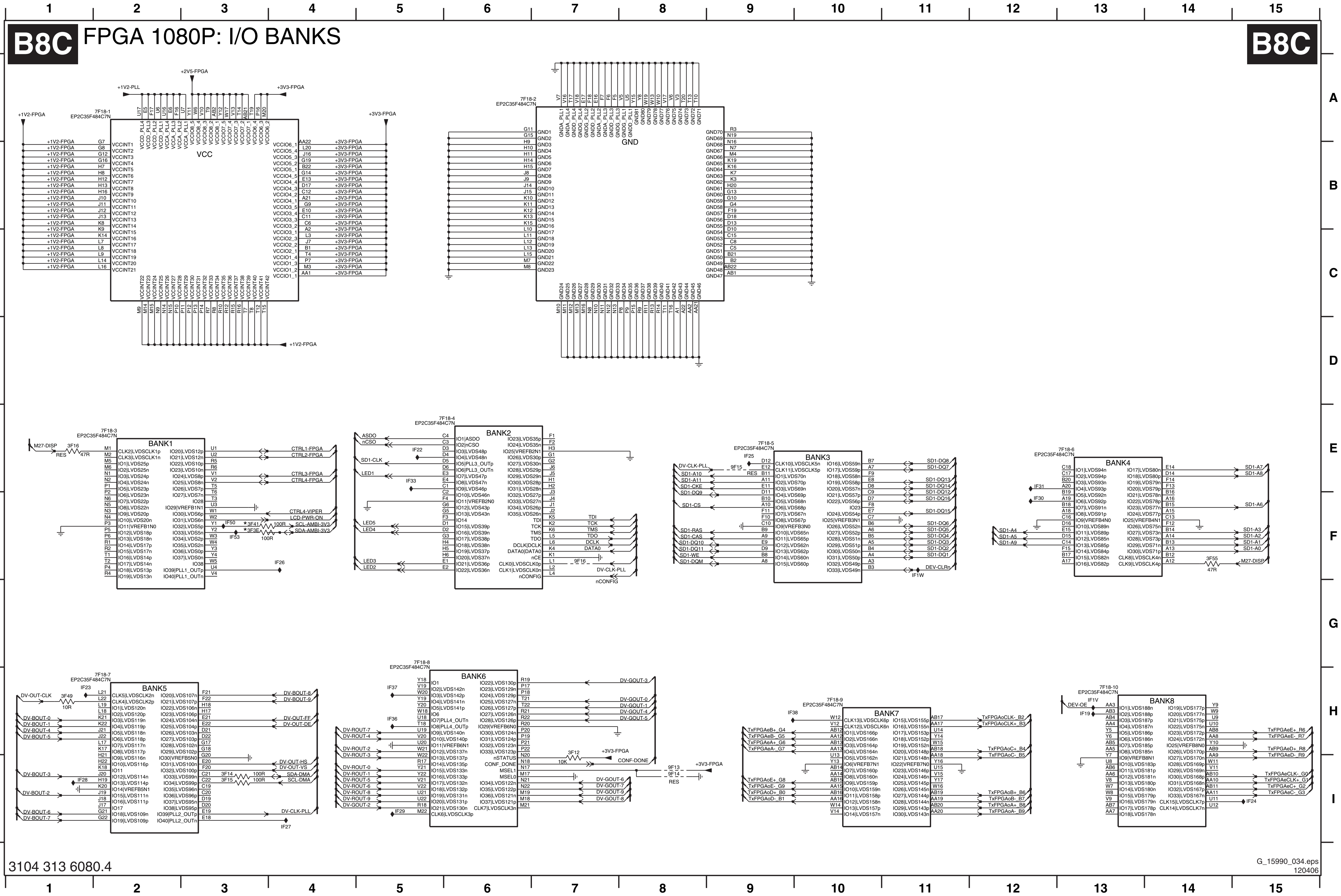
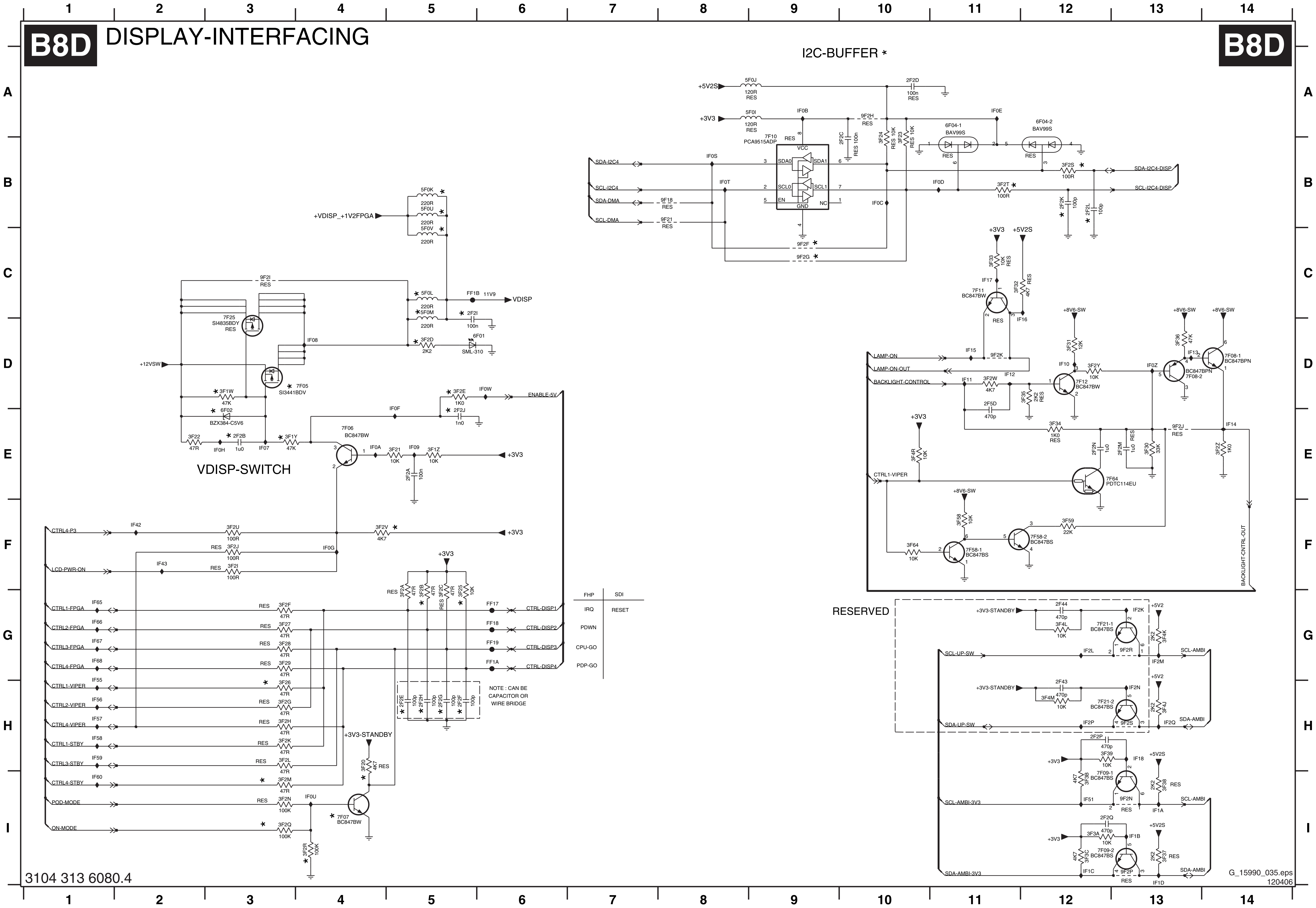
1F00	E9
2F0Q	A9
2F0T	E4
2F0U	D1
2F0V	A3
2F0W	B3
2F0Y	B4
2F0Z	B4
2F10	B3
2F11	B3
2F12	B3
2F13	B3
2F14	B4
2F15	B4
2F16	C1
2F17	C2
2F18	C2
2F19	C2
2F1A	C3
2F1B	C3
2F1C	C3
2F1D	C2
2F1E	D1
2F1F	D2
2F1G	A9
2F1H	F5
2F1I	A3
2F1J	A3
2F1K	A4
2F1L	A4
2F1M	A4
2F1N	A4
2F1P	A5
2F1Q	A5
2F1R	C3
2F1S	C3
2F1T	C4
2F1U	C4
2F1V	C4
2F1W	C4
2F1Y	C4
2F1Z	C5
2F20	C5
2F21	D2
2F22	D2
2F23	D2
2F24	D2
2F25	D3
2F26	D3
2F27	D3
2F28	C5
2F29	C5
2F47	B5
2F53	B5
2F6A	A5
2F6B	B4
2F6D	B6
3F1F	E8
3F1G	F8
3F1H	F8
3F1I	F8
3F1J	E8
3F1K	F8
3F1L	E7
3F1M	E7
3F1N	E6
3F1P	E4
3F1Q	E5
3F1R	F4
3F1S	C8
3F1T	C9
3F1U	C9
3F1V	B9
3F50	F1
3F51	F2
3F52	F2
3F53	F3
3F54	F3
3F85	F1
3F86	F2
3F87	F2
3F88	F3
3F89	F3
5F0D	C1
5F0E	A2
5F0G	B2
5F0H	A9
5F0W	A2
5F22	B2
5F23	B2
5F83	B1
6F00	C9
6F05	F1
6F09	F2
6F10	F2
6F11	F3
6F12	F3
7F02-1	F6
7F02-2	F5
7F03	C9
7F04	A8
7F22	A7
FF06	C2
FF0W	F9
FF0Y	F8
FF0Z	F8
FF10	F8
FF11	E8
FF12	F6
FF13	A3
FF14	B3
FF15	B3
IF00	E5
IF01	F4
IF02	E4
IF03	B8
IF04	B8
IF05	B8
IF06	B8
IF34	A2
IF40	C1
IF41	A8
IF88	C8
cF01	B5

SSB: FPGA 1080P: I/O Banks


B8C
FPGA 1080P: I/O BANKS
B8C
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
A B C D E F G H I
7F18-1
EP2C35F484C7N
VCC
+1V2-PLL
+2V5-FPGA
+3V3-FPGA
+1V2-FPGA
7F18-2
EP2C35F484C7N
GND
7F18-3
EP2C35F484C7N
BANK1
M27-DISP
3F16
47R
RES
CTRL1-FPGA
CTRL2-FPGA
CTRL3-FPGA
CTRL4-FPGA
CTRL4-VIPER
LCD-PWR-ON
SCL-AMBI-3V3
SDA-AMBI-3V3
3F41
3F3E
100R
IF50
IF53
IF26
7F18-4
EP2C35F484C7N
BANK2
ASDO
nCSO
SD1-CLK
LED1
LED5
LED4
LED3
LED2
IF22
IF33
TDI
TCK
TMS
TDO
DCLK
DATA0
9F16
DV-CLK-PLL
nCONFIG
7F18-5
EP2C35F484C7N
BANK3
IF25
9F15
DV-CLK-PLL
SD1-A10
SD1-A11
SD1-CKE
SD1-DQ9
SD1-CS
SD1-RAS
SD1-CAS
SD1-DQ10
SD1-DQ11
SD1-WE
SD1-DQM
SD1-DQ8
SD1-DQ7
SD1-DQ13
SD1-DQ14
SD1-DQ12
SD1-DQ16
SD1-DQ15
SD1-DQ6
SD1-DQ5
SD1-DQ4
SD1-DQ3
SD1-DQ2
SD1-DQ1
DEV-CLRn
IF1W
7F18-6
EP2C35F484C7N
BANK4
IF31
IF30
SD1-A4
SD1-A5
SD1-A9
SD1-A7
SD1-A8
SD1-A6
SD1-A3
SD1-A2
SD1-A1
SD1-A0
3F55
47R
M27-DISP
7F18-7
EP2C35F484C7N
BANK5
IF23
DV-OUT-CLK
3F49
10R
DV-BOUT-0
DV-BOUT-1
DV-BOUT-4
DV-BOUT-5
DV-BOUT-3
DV-BOUT-2
DV-BOUT-6
DV-BOUT-7
IF28
DV-BOUT-8
DV-BOUT-9
DV-OUT-FF
DV-OUT-DE
DV-OUT-HS
DV-OUT-VS
3F14
3F15
100R
SDA-DMA
SCL-DMA
DV-CLK-PLL
IF27
7F18-8
EP2C35F484C7N
BANK6
IF37
IF36
IF29
DV-ROUT-7
DV-ROUT-4
DV-ROUT-2
DV-ROUT-3
DV-ROUT-0
DV-ROUT-5
DV-ROUT-6
DV-ROUT-8
DV-ROUT-1
DV-GOUT-2
DV-GOUT-3
DV-GOUT-0
DV-GOUT-1
DV-GOUT-4
DV-GOUT-5
DV-GOUT-6
DV-GOUT-7
DV-GOUT-8
3F12
10K
+3V3-FPGA
CONF-DONE
9F13
9F14
RES
7F18-9
EP2C35F484C7N
BANK7
IF38
TxFPGAeB+_G4
TxFPGAeB-_G5
TxFPGAeA+_G6
TxFPGAeA-_G7
TxFPGAoE+_G8
TxFPGAoE-_G9
TxFPGAoD+_B0
TxFPGAoD-_B1
TxFPGAoCLK-_B2
TxFPGAoCLK+_B3
TxFPGAoC+_B4
TxFPGAoC-_B5
TxFPGAoB+_B6
TxFPGAoB-_B7
TxFPGAoA+_B8
TxFPGAoA-_B9
7F18-10
EP2C35F484C7N
BANK8
IF1V
IF19
DEV-OE
TxFPGAeE+_R6
TxFPGAeE-_R7
TxFPGAeD+_R8
TxFPGAeD-_R9
TxFPGAeCLK-_G0
TxFPGAeCLK+_G1
TxFPGAeC+_G2
TxFPGAeC-_G3
IF24
3104 313 6080.4
G_15990_034.eps
120406

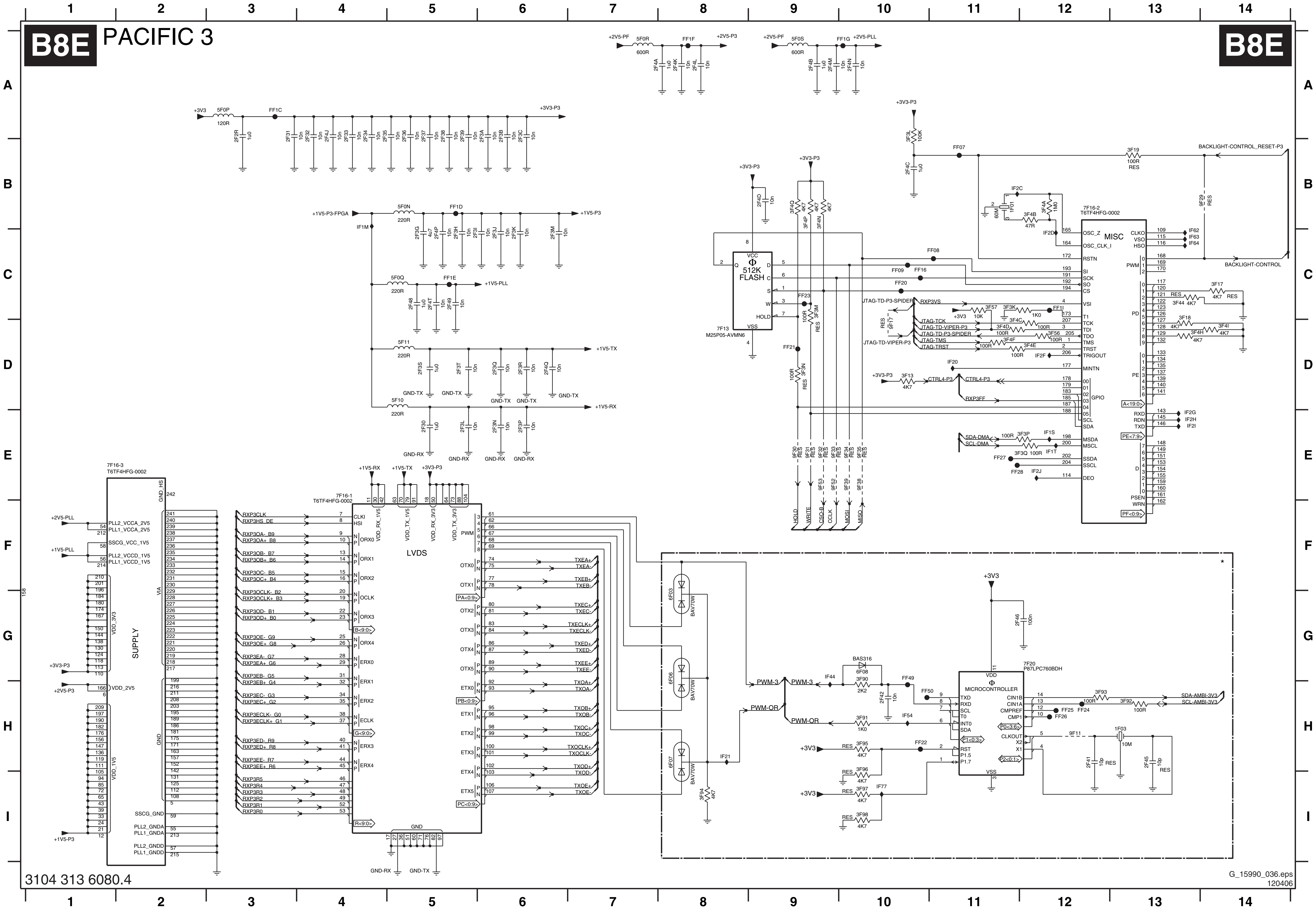
3F12	H7
3F14	I3
3F15	I3
3F16	E1
3F3E	F3
3F41	F3
3F49	H1
3F55	F14
7F18-1	A2
7F18-10	H13
7F18-2	A7
7F18-3	E2
7F18-4	E6
7F18-5	E9
7F18-6	E13
7F18-7	H2
7F18-8	G5
7F18-9	H10
9F13	I8
9F14	I8
9F15	E9
9F16	F7
IF19	H1
IF1V	H13
IF1W	F11
IF22	E5
IF23	H1
IF24	I1
IF25	E9
IF26	F4
IF27	I4
IF28	I1
IF29	I5
IF30	F12
IF31	E12
IF33	E5
IF36	H5
IF37	H5
IF38	H9
IF50	F3
IF53	F3

SSB: Display Interfacing


B8D
DISPLAY-INTERFACING
B8D
I2C-BUFFER *
+5V2S
+3V3
5F0J 120R RES
5F0I 120R RES
2F2D 100n RES
IF0B
9F2H RES
IF0E
7F10 PCA9515ADP
VCC
SDA0
SDA1
SCL0
SCL1
EN
GND
NC
6F04-1 BAV99S
6F04-2 BAV99S
3F2S 100R
3F2T 100R
SDA-I2C4
SCL-I2C4
SDA-DMA
SCL-DMA
9F18 RES
9F21 RES
SDA-I2C4-DISP
SCL-I2C4-DISP
9F2F *
9F2G *
+VDISP_+1V2FPGA
5F0K 220R
5F0U 220R
5F0V 220R
9F2I RES
7F25 SI4835BDY RES
5F0L 220R
5F0M 220R
FF1B 11V9
VDISP
2F2I 100n
3F2D 2K2
6F01 SML-310
IF08
+12VSW
7F05 SI3441BDV
3F1W 47K
6F02 BZX384-C5V6
3F2E 1K0
2F2J 1n0
IF0W
ENABLE-5V
IF0F
7F06 BC847BW
3F22 47R
IF0H
2F2B 1u0
IF07
3F1Y 47K
IF0A
3F21 10K
IF09
3F1Z 10K
2F2A 100n
VDISP-SWITCH
CTRL4-P3
IF42
3F2U 100R
3F2V 4K7
IF0G
LCD-PWR-ON
IF43
3F2J 100R
3F2I 100R
CTRL1-FPGA
CTRL2-FPGA
CTRL3-FPGA
CTRL4-FPGA
CTRL1-VIPER
CTRL2-VIPER
CTRL4-VIPER
CTRL1-STBY
CTRL3-STBY
CTRL4-STBY
POD-MODE
ON-MODE
IF65
IF66
IF67
IF68
IF55
IF56
IF57
IF58
IF59
IF60
3F2F 47R
3F27 47R
3F28 47R
3F29 47R
3F26 47R
3F2G 47R
3F2H 47R
3F2K 47R
3F2L 47R
3F2M 47R
3F2N 100K
3F2Q 100K
3F2R 100K
3F2A 47R
3F2B 47R
3F2C 47R
3F25 10K
FF17
FF18
FF19
FF1A
CTRL-DISP1
CTRL-DISP2
CTRL-DISP3
CTRL-DISP4
2F2E 100p
2F2H 100p
2F2G 100p
2F2F 100p
NOTE : CAN BE CAPACITOR OR WIRE BRIDGE
FHP
SDI
IRQ
RESET
PDWN
CPU-GO
PDP-GO
+3V3-STANDBY
3F20 4K7 RES
IF0U
7F07 BC847BW
3F33 10K RES
3F32 4K7 RES
IF17
7F11 BC847BW
IF16
+8V6-SW
LAMP-ON
LAMP-ON-OUT
BACKLIGHT-CONTROL
IF15
9F2K
IF11
3F2W 4K7
IF12
2F5D 470p
3F35 2K2 RES
3F31 12K
IF10
3F2Y 10K
7F12 BC847BW
3F34 1K0 RES
3F36 47K
IF13
IF0Z
7F08-2 BC847BPN
7F08-1 BC847BPN
9F2J RES
IF14
2F2N 1u0
2F2M 1u0 RES
3F30 33K
3F2Z 1K0
3F4R 10K
CTRL1-VIPER
7F64 PDTC114EU
3F58 10K
3F59 22K
3F64 10K
7F58-1 BC847BS
7F58-2 BC847BS
BACKLIGHT-CNTRL-OUT
RESERVED
+3V3-STANDBY
2F44 470p
3F4L 10K
7F21-1 BC847BS
IF2K
+5V2
3F4K 2K2
SCL-UP-SW
IF2L
9F2R
IF2M
SCL-AMBI
2F43 470p
3F4M 10K
7F21-2 BC847BS
IF2N
3F4J 2K2
SDA-UP-SW
IF2P
9F2S
IF2Q
SDA-AMBI
2F2P 470p
3F39 10K
IF18
+5V2S
3F3B 4K7
7F09-1 BC847BS
3F38 2K2 RES
IF51
9F2N
SCL-AMBI-3V3
IF1A
2F2Q 470p
3F3A 10K
IF1B
3F3C 4K7
7F09-2 BC847BS
3F37 2K2 RES
IF1C
9F2P
IF1D
SDA-AMBI-3V3
3104 313 6080.4
G_15990_035.eps
120406

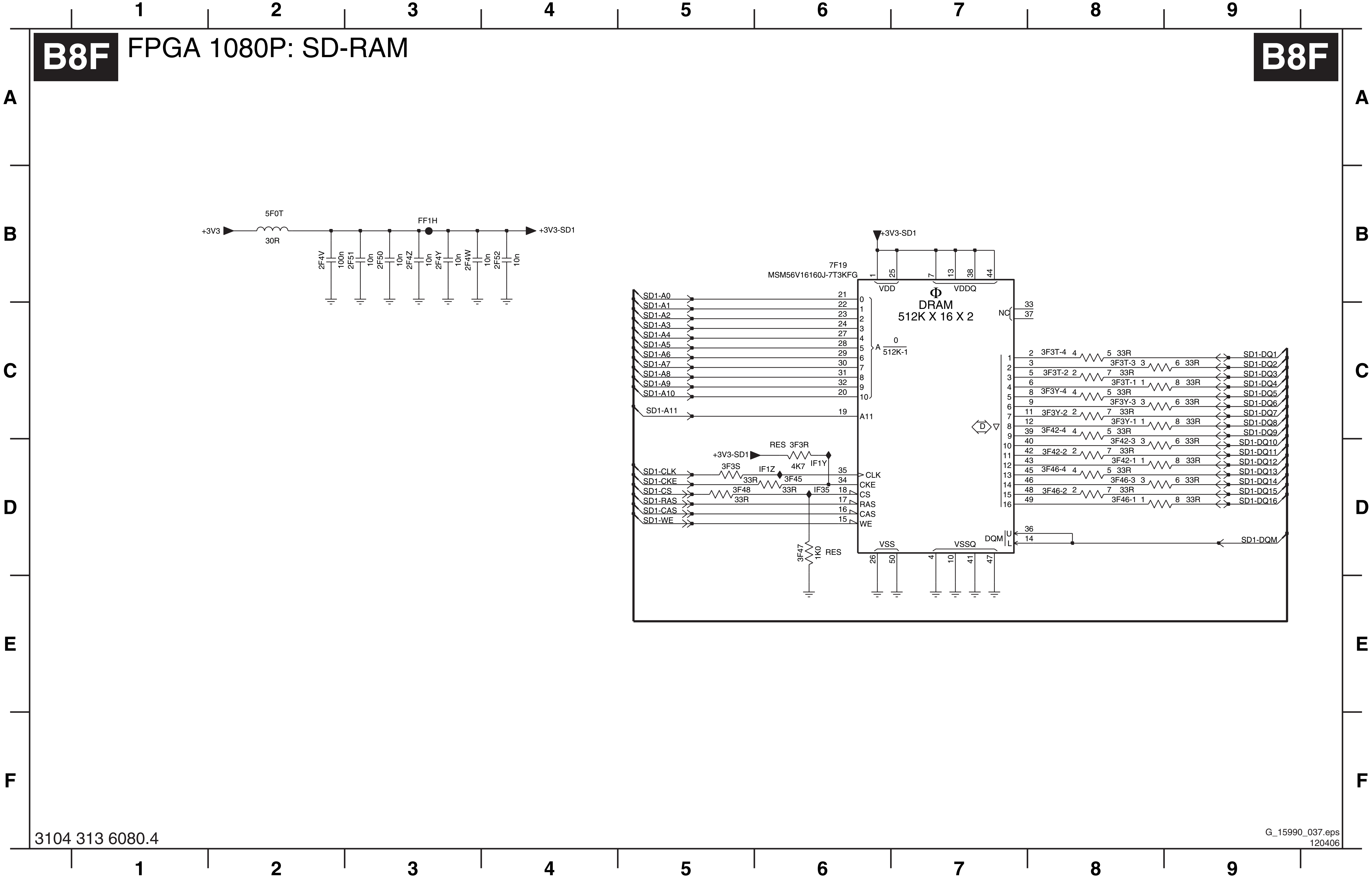
2F2A	E5
2F2B	E3
2F2C	B10
2F2D	A10
2F2E	H5
2F2F	H5
2F2G	H5
2F2H	H5
2F2I	C5
2F2J	E5
2F2K	B12
2F2L	B12
2F2M	E13
2F2N	E12
2F2P	H12
2F2Q	I12
2F43	H12
2F44	G12
2F5D	D11
3F1W	D3
3F1Y	E3
3F1Z	E5
3F20	H4
3F21	E5
3F22	E2
3F23	B10
3F24	B10
3F25	G5
3F26	H3
3F27	G3
3F28	G3
3F29	G3
3F2A	G5
3F2B	G5
3F2C	G5
3F2D	D5
3F2E	D5
3F2F	G3
3F2G	H3
3F2H	H3
3F2I	F3
3F2J	F3
3F2K	H3
3F2L	H3
3F2M	I3
3F2N	I3
3F2Q	I3
3F2R	I4
3F2S	B12
3F2T	B11
3F2U	F3
3F2V	F4
3F2W	D11
3F2Y	D12
3F2Z	E14
3F30	E13
3F31	D12
3F32	C11
3F33	C11
3F34	E12
3F35	D12
3F36	D13
3F37	I13
3F38	I13
3F39	H12
3F3A	I12
3F3B	I12
3F3C	I12
3F4J	H13
3F4K	G13
3F4L	G12
3F4M	H12
3F4R	E10
3F58	F11
3F59	F12
3F64	F10
5F0I	A9
5F0J	A9
5F0K	B5
5F0L	C5
5F0M	C5
5F0U	B5
5F0V	C5
6F01	D5
6F02	E3
6F04-1	A11
6F04-2	A12
7F05	D4
7F06	E4
7F07	I4
7F08-1	D14
7F08-2	D13
7F09-1	H13
7F09-2	I13
7F10	B9
7F11	C11
7F12	D12
7F21-1	G13
7F21-2	H13
7F25	C3
7F58-1	F11
7F58-2	F12
7F64	E12
9F18	B8
9F21	B8
9F2F	C9
9F2G	C9
9F2H	A10
9F2I	C3
9F2J	E13
9F2K	D11
9F2N	I1
9F2P	I1
9F2R	G13
9F2S	H13
FF17	G6
FF18	G6
FF19	G6
FF1A	G6
FF1B	C5
IF07	E3
IF08	D4
IF09	E5
IF0A	E4
IF0B	A9
IF0C	B10
IF0D	B11
IF0E	A11
IF0F	D5
IF0G	F4
IF0H	E3
IF0S	B8
IF0T	B8
IF0U	I4
IF0W	D6
IF0Z	D13
IF10	D12
IF11	D11
IF12	D11
IF13	D13
IF14	E14
IF15	D11
IF16	D12
IF17	C11
IF18	H13
IF1A	I1
IF1B	I1
IF1C	I1
IF1D	I1
IF2K	G13
IF2L	G12
IF2M	G13
IF2N	H13
IF2P	H12
IF2Q	H13
IF42	F2
IF43	F2
IF51	I1
IF55	G1
IF56	H1
IF57	H1
IF58	H1
IF59	H1
IF60	I1
IF65	G1
IF66	G1
IF67	G1
IF68	G1

SSB: Pacific 3


B8E
PACIFIC 3
B8E
7F16-3
T6TF4HFG-0002
SUPPLY
7F16-1
T6TF4HFG-0002
LVDS
7F16-2
T6TF4HFG-0002
MISC
7F13
M25P05-AVMN6
512K FLASH
7F20
P87LPC760BDH
MICROCONTROLLER
+3V3
+3V3-P3
+1V5-P3-FPGA
+1V5-P3
+1V5-PLL
+1V5-TX
+1V5-RX
+2V5-PF
+2V5-P3
+2V5-PLL
BACKLIGHT-CONTROL_RESET-P3
BACKLIGHT-CONTROL
JTAG-TD-P3-SPIDER
JTAG-TD-VIPER-P3
PWM-3
PWM-OR
SDA-AMBI-3V3
SCL-AMBI-3V3
SDA-DMA
SCL-DMA
CTRL4-P3
HOLD
WRITE
CSO-B
CCLK
MOSI
MISO
3104 313 6080.4
G_15990_036.eps
120406

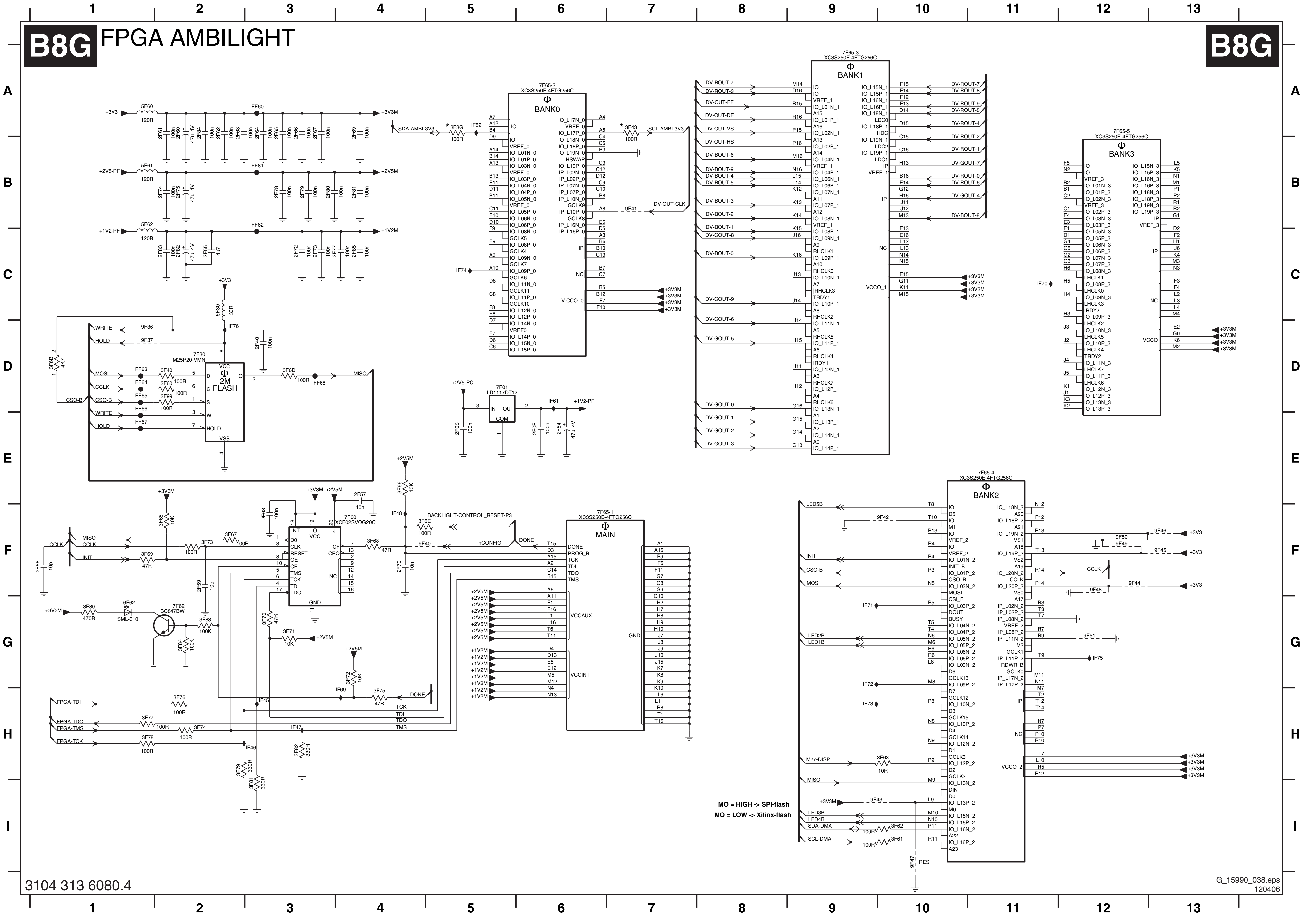
1F01	B11
1F03	H13
2F2R	A3
2F30	E5
2F31	A3
2F32	A4
2F33	A4
2F34	A4
2F35	A4
2F36	A5
2F37	A5
2F38	A5
2F39	A5
2F3A	A6
2F3B	A6
2F3C	A6
2F3G	C5
2F3H	C5
2F3I	C5
2F3J	C6
2F3K	C6
2F3L	E5
2F3M	C6
2F3N	E6
2F3P	E6
2F3Q	D6
2F3R	D6
2F3S	D5
2F3T	D5
2F41	H12
2F42	H10
2F45	H13
2F46	G11
2F48	C5
2F49	C5
2F4A	A7
2F4B	A9
2F4C	B10
2F4D	B9
2F4J	A4
2F4K	A8
2F4L	A8
2F4M	A9
2F4N	A10
2F4P	C5
2F4Q	D6
2F4T	C5
3F13	D10
3F17	C14
3F18	C13
3F19	B13
3F3K	C11
3F3L	A10
3F3M	C9
3F3N	D9
3F3P	E12
3F3Q	E12
3F44	C13
3F4A	B12
3F4B	B12
3F4C	D11
3F4D	D11
3F4E	D12
3F4F	D11
3F4H	D13
3F4I	D14
3F4N	B9
3F4P	B9
3F4Q	B9
3F56	D12
3F57	C11
3F90	G10
3F91	H10
3F92	H13
3F93	H12
3F94	I8
3F95	H10
3F96	H10
3F97	I10
3F98	I10
5F0N	B5
5F0P	A3
5F0Q	C5
5F0R	A7
5F0S	A9
5F10	D5
5F11	D5
6F03	G8
6F06	G8
6F07	H8
6F08	G10
7F13	D8
7F16-1	E4
7F16-2	B12
7F16-3	E1
7F20	G12
9F11	H12
9F17	D10
9F29	B14
9F30	E9
9F31	E9
9F32	E9
9F33	E9
9F34	E10
9F35	E10
9F38	E10
9F39	E10
9F52	E9
9F53	E9
FF07	B11
FF08	C11
FF09	C10
FF16	C10
FF1C	A3
FF1D	B5
FF1E	C5
FF1F	A8
FF1G	A10
FF1I	C12
FF20	C10
FF21	D9
FF22	H10
FF23	C9
FF24	H12
FF25	H12
FF26	H12
FF27	E11
FF28	E11
FF49	G10
FF50	H10
IF1M	B4
IF1S	E12
IF1T	E12
IF20	D11
IF21	H8
IF2C	B11
IF2D	C12
IF2F	D12
IF2G	E13
IF2H	E13
IF2I	E13
IF2J	E12
IF44	G9
IF54	H10
IF62	C13
IF63	C13
IF64	C13
IF77	I10

SSB: FPGA 1080P: SD-RAM


B8F
FPGA 1080P: SD-RAM
B8F
1 2 3 4 5 6 7 8 9
A B C D E F
+3V3
5F0T
30R
FF1H
+3V3-SD1
2F4V 100n
2F51 10n
2F50 10n
2F4Z 10n
2F4Y 10n
2F4W 10n
2F52 10n
7F19
MSM56V16160J-7T3KFG
VDD
VDDQ
Φ
DRAM
512K X 16 X 2
NC
33
37
A
0
512K-1
A11
SD1-A0
SD1-A1
SD1-A2
SD1-A3
SD1-A4
SD1-A5
SD1-A6
SD1-A7
SD1-A8
SD1-A9
SD1-A10
SD1-A11
RES 3F3R
4K7
IF1Y
3F3S
33R
IF1Z
3F45
3F48
IF35
SD1-CLK
SD1-CKE
SD1-CS
SD1-RAS
SD1-CAS
SD1-WE
CLK
CKE
CS
RAS
CAS
WE
3F47
1K0
RES
VSS
VSSQ
DQM
U
L
SD1-DQM
3F3T-4
3F3T-3
3F3T-2
3F3T-1
3F3Y-4
3F3Y-3
3F3Y-2
3F3Y-1
3F42-4
3F42-3
3F42-2
3F42-1
3F46-4
3F46-3
3F46-2
3F46-1
33R
SD1-DQ1
SD1-DQ2
SD1-DQ3
SD1-DQ4
SD1-DQ5
SD1-DQ6
SD1-DQ7
SD1-DQ8
SD1-DQ9
SD1-DQ10
SD1-DQ11
SD1-DQ12
SD1-DQ13
SD1-DQ14
SD1-DQ15
SD1-DQ16
D
3104 313 6080.4
G_15990_037.eps
120406

2F4V	B2
2F4W	B3
2F4Y	B3
2F4Z	B3
2F50	B3
2F51	B3
2F52	B4
3F3R	D6
3F3S	D5
3F3T-1	C8
3F3T-2	C8
3F3T-3	C8
3F3T-4	C8
3F3Y-1	C8
3F3Y-2	C8
3F3Y-3	C8
3F3Y-4	C8
3F42-1	D8
3F42-2	D8
3F42-3	D8
3F42-4	C8
3F45	D6
3F46-1	D8
3F46-2	D8
3F46-3	D8
3F46-4	D8
3F47	D6
3F48	D5
5F0T	B2
7F19	B6
FF1H	B3
IF1Y	D6
IF1Z	D6
IF35	D6

SSB: FPGA Ambilight


B8G
FPGA AMBILIGHT
7F65-2 XC3S250E-4FTG256C BANK0
7F65-3 XC3S250E-4FTG256C BANK1
7F65-5 XC3S250E-4FTG256C BANK3
7F65-4 XC3S250E-4FTG256C BANK2
7F65-1 XC3S250E-4FTG256C MAIN
7F30 M25P20-VMN 2M FLASH
7F60 XCF02SVOG20C
7F01 LD1117DT12
7F62 BC847BW
6F62 SML-310
+3V3M
+2V5M
+1V2M
SDA-AMBI-3V3
SCL-AMBI-3V3
DV-OUT-CLK
BACKLIGHT-CONTROL_RESET-P3
nCONFIG
DONE
FPGA-TDI
FPGA-TDO
FPGA-TMS
FPGA-TCK
MISO
MOSI
CCLK
CSO-B
WRITE
HOLD
INIT
LED5B
LED2B
LED1B
LED3B
LED4B
M27-DISP
SDA-DMA
SCL-DMA
RES
MO = HIGH -> SPI-flash
MO = LOW -> Xilinx-flash
3104 313 6080.4
G_15990_038.eps
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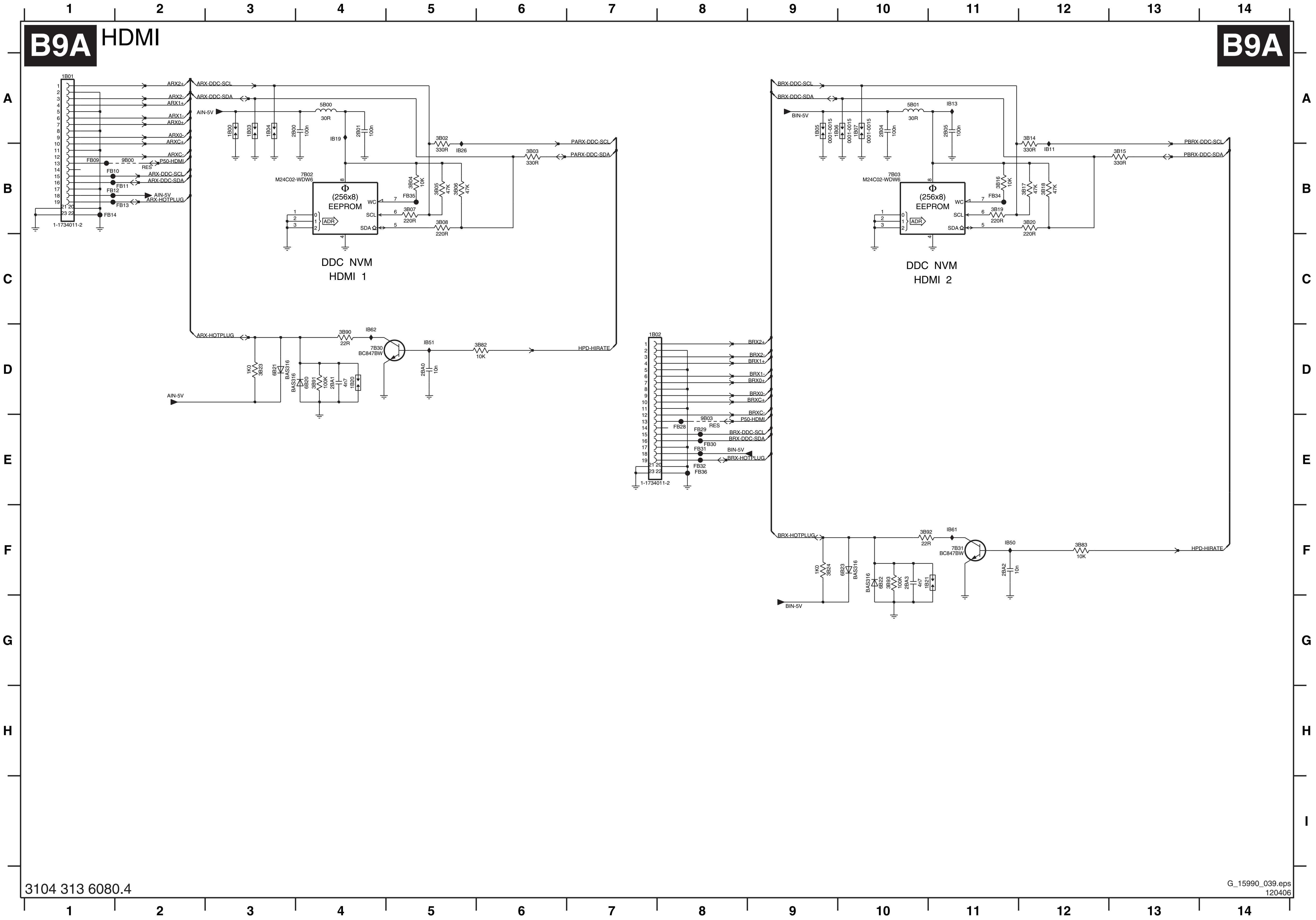
2F0R	E6
2F0S	E5
2F40	D3
2F54	E6
2F55	C2
2F57	E4
2F58	F1
2F59	F2
2F60	A2
2F61	A2
2F62	A2
2F63	A2
2F64	A3
2F65	A3
2F66	A3
2F67	A3
2F68	F3
2F69	A4
2F70	F4
2F72	C3
2F73	C3
2F74	B2
2F75	B2
2F77	C4
2F78	B3
2F79	B3
2F80	B3
2F81	B4
2F82	C2
2F83	C2
2F84	A2
2F85	C4
3F3G	A5
3F40	D2
3F43	A7
3F60	D2
3F61	I10
3F62	I10
3F63	H10
3F65	F2
3F66	E4
3F67	F2
3F68	F4
3F69	F1
3F6B	D1
3F6D	D3
3F6E	F4
3F70	G3
3F71	G3
3F72	G4
3F73	F2
3F74	H2
3F75	H4
3F76	H2
3F77	H1
3F78	H1
3F79	H2
3F80	G1
3F81	I3
3F82	H3
3F83	G2
3F84	G2
3F99	D2
5F30	C2
5F60	A1
5F61	B1
5F62	B1
6F62	G1
7F01	D5
7F30	D2
7F60	F4
7F62	G2
7F65-1	F6
7F65-2	A6
7F65-3	A9
7F65-4	E11
7F65-5	A12
9F36	D1
9F37	D1
9F40	F4
9F41	B7
9F42	F10
9F43	I9
9F44	F12
9F45	F13
9F46	F13
9F47	I10
9F48	F12
9F49	F12
9F50	F12
9F51	G12
FF60	A3
FF61	B3
FF62	B3
FF63	D1
FF64	D1
FF65	D1
FF66	D1
FF67	E1
FF68	D3
IF45	H3
IF46	H3
IF47	H3
IF48	F4
IF52	A5
IF61	D6
IF69	H4
IF70	C11
IF71	G9
IF72	G9
IF73	H9
IF74	C5
IF75	G12
IF76	D2

SSB: HDMI


B9A
HDMI
B9A
1B01
ARX2+
ARX2-
ARX1+
ARX1-
ARX0+
ARX0-
ARXC+
ARXC-
FB09
9B00
RES
P50-HDMI
FB10
ARX-DDC-SCL
ARX-DDC-SDA
FB11
FB12
AIN-5V
FB13
ARX-HOTPLUG
FB14
1-1734011-2
ARX-DDC-SCL
ARX-DDC-SDA
AIN-5V
5B00
30R
1B00
1B03
1B04
2B00
100n
2B01
100n
IB19
3B02
330R
IB26
3B03
330R
PARX-DDC-SCL
PARX-DDC-SDA
7B02
M24C02-WDW6
(256x8)
EEPROM
WC
SCL
SDA
ADR
3B04
10K
FB35
3B05
47K
3B06
47K
3B07
220R
3B08
220R
DDC NVM
HDMI 1
ARX-HOTPLUG
3B90
22R
IB62
7B30
BC847BW
IB51
3B82
10K
HPD-HIRATE
1K0
3B23
6B21
BAS316
6B20
3B91
100K
2BA1
4n7
1B20
2BA0
10n
AIN-5V
BRX-DDC-SCL
BRX-DDC-SDA
BIN-5V
5B01
30R
IB13
1B05
0001-0015
1B06
0001-0015
1B07
0001-0015
2B04
100n
2B05
100n
3B14
330R
IB11
3B15
330R
PBRX-DDC-SCL
PBRX-DDC-SDA
7B03
M24C02-WDW6
(256x8)
EEPROM
3B16
10K
FB34
3B17
47K
3B18
47K
3B19
220R
3B20
220R
DDC NVM
HDMI 2
1B02
BRX2+
BRX2-
BRX1+
BRX1-
BRX0+
BRX0-
BRXC+
BRXC-
9B03
RES
P50-HDMI
FB28
FB29
BRX-DDC-SCL
BRX-DDC-SDA
FB30
FB31
BIN-5V
BRX-HOTPLUG
FB32
FB36
1-1734011-2
BRX-HOTPLUG
3B92
22R
IB61
7B31
BC847BW
IB50
3B83
10K
HPD-HIRATE
1K0
3B24
6B23
BAS316
6B22
3B93
100K
2BA3
4n7
1B21
2BA2
10n
BIN-5V
3104 313 6080.4
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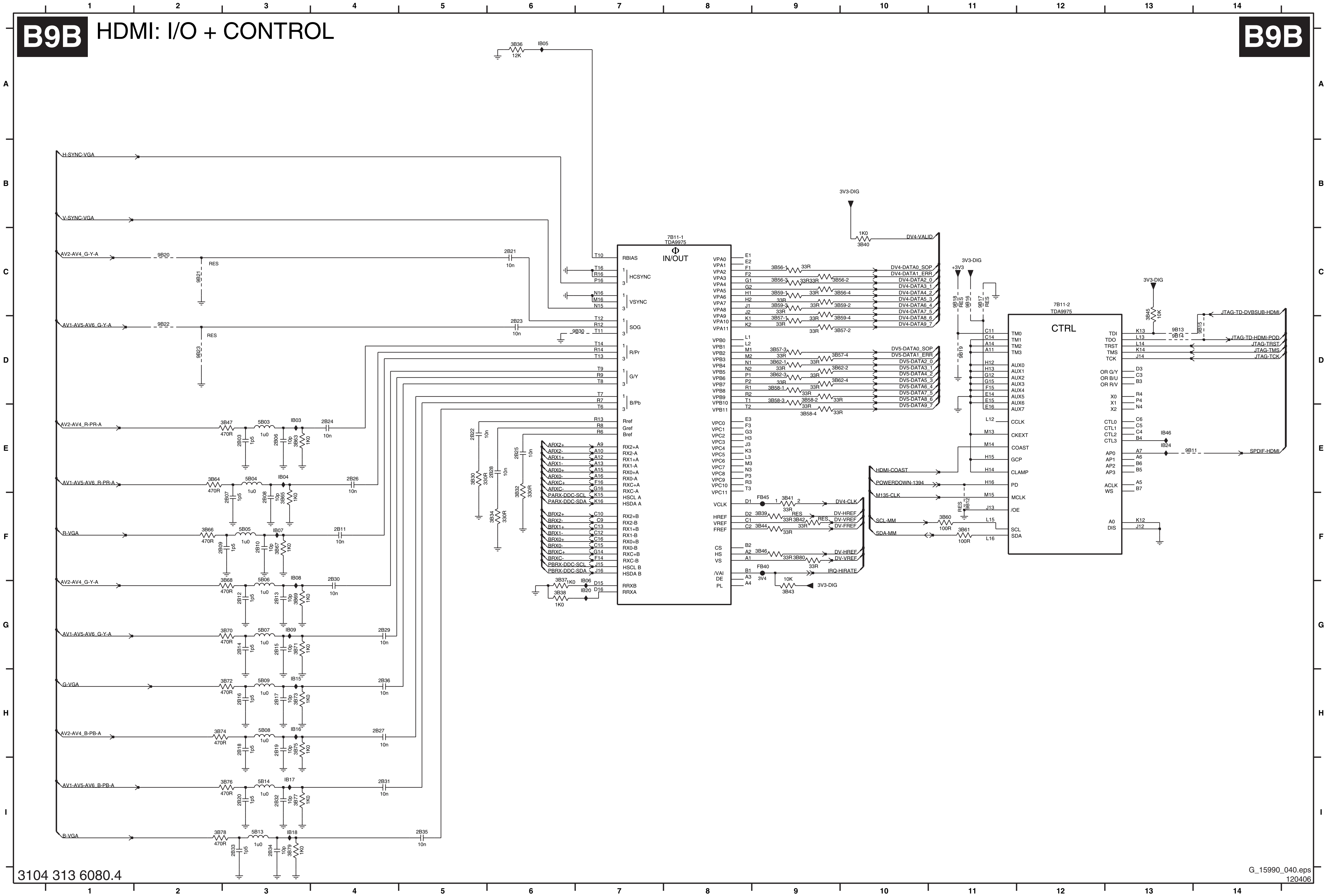
1B00	A3
1B01	A1
1B02	D7
1B03	A3
1B04	A3
1B05	A9
1B06	A10
1B07	A10
1B20	D4
1B21	F11
2B00	A3
2B01	A4
2B04	A10
2B05	A11
2BA0	D5
2BA1	D4
2BA2	F11
2BA3	F10
3B02	A5
3B03	B6
3B04	B5
3B05	B5
3B06	B5
3B07	B5
3B08	B5
3B14	A12
3B15	B13
3B16	B11
3B17	B12
3B18	B12
3B19	B11
3B20	B12
3B23	D3
3B24	F9
3B82	D6
3B83	F12
3B90	D4
3B91	D4
3B92	F10
3B93	F10
5B00	A4
5B01	A10
6B20	D4
6B21	D3
6B22	F10
6B23	F10
7B02	B4
7B03	B10
7B30	D4
7B31	F11
9B00	B2
9B03	E8
FB09	B1
FB10	B1
FB11	B2
FB12	B1
FB13	B2
FB14	B1
FB28	E8
FB29	E8
FB30	E8
FB31	E8
FB32	E8
FB34	B11
FB35	B5
FB36	E8
IB11	B12
IB13	A11
IB19	A4
IB26	B5
IB50	F11
IB51	D5
IB61	F11
IB62	D4

SSB: HDMI: I/O Control


B9B
HDMI: I/O + CONTROL
B9B
7B11-1
TDA9975
Φ
IN/OUT
7B11-2
TDA9975
CTRL
H-SYNC-VGA
V-SYNC-VGA
AV2-AV4_G-Y-A
AV1-AV5-AV6_G-Y-A
AV2-AV4_R-PR-A
AV1-AV5-AV6_R-PR-A
R-VGA
AV2-AV4_G-Y-A
AV1-AV5-AV6_G-Y-A
G-VGA
AV2-AV4_B-PB-A
AV1-AV5-AV6_B-PB-A
B-VGA
RBIAS
HCSYNC
VSYNC
SOG
R/Pr
G/Y
B/Pb
Rref
Gref
Bref
RX2+A
RX2-A
RX1+A
RX1-A
RX0+A
RX0-A
RXC+A
RXC-A
HSCL A
HSDA A
RX2+B
RX2-B
RX1+B
RX1-B
RX0+B
RX0-B
RXC+B
RXC-B
HSCL B
HSDA B
RRXB
RRXA
PARX-DDC-SCL
PARX-DDC-SDA
PBRX-DDC-SCL
PBRX-DDC-SDA
DV4-VALID
DV4-DATA0_SOP
DV4-DATA1_ERR
DV4-DATA2_0
DV4-DATA3_1
DV4-DATA4_2
DV4-DATA5_3
DV4-DATA6_4
DV4-DATA7_5
DV4-DATA8_6
DV4-DATA9_7
DV5-DATA0_SOP
DV5-DATA1_ERR
DV5-DATA2_0
DV5-DATA3_1
DV5-DATA4_2
DV5-DATA5_3
DV5-DATA6_4
DV5-DATA7_5
DV5-DATA8_6
DV5-DATA9_7
DV4-CLK
DV-HREF
DV-VREF
DV-FREF
IRQ-HIRATE
3V3-DIG
+3V3
HDMI-COAST
POWERDOWN-1394
M135-CLK
SCL-MM
SDA-MM
TM0
TM1
TM2
TM3
AUX0
AUX1
AUX2
AUX3
AUX4
AUX5
AUX6
AUX7
CCLK
CKEXT
COAST
GCP
CLAMP
PD
MCLK
/OE
SCL
SDA
TDI
TDO
TRST
TMS
TCK
OR G/Y
OR B/U
OR R/V
X0
X1
X2
CTL0
CTL1
CTL2
CTL3
AP0
AP1
AP2
AP3
ACLK
WS
A0
DIS
JTAG-TD-DVBSUB-HDMI
JTAG-TD-HDMI-POD
JTAG-TRST
JTAG-TMS
JTAG-TCK
SPDIF-HDMI
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G_15990_040.eps
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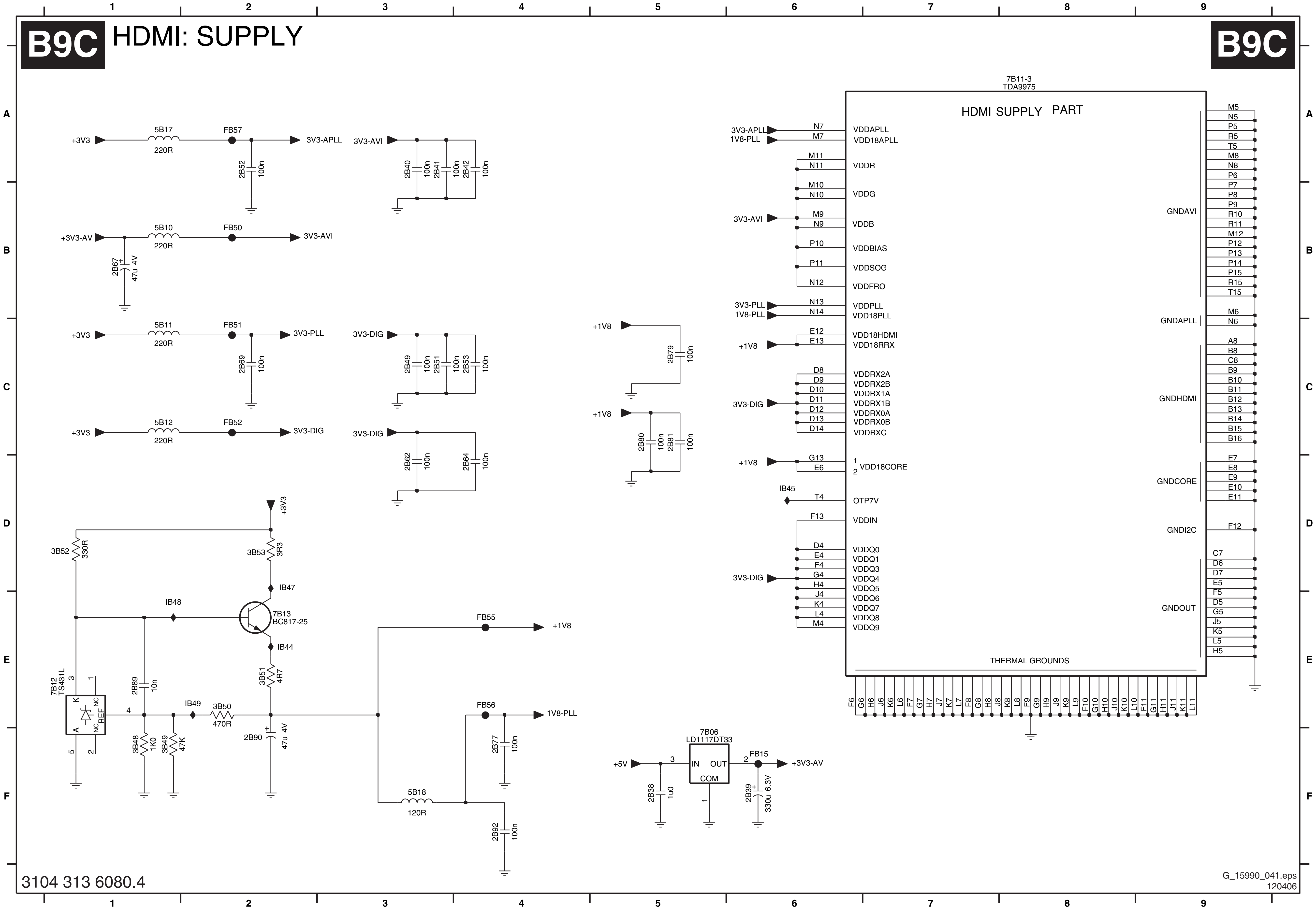
2B03	E3
2B06	E3
2B07	F3
2B08	F3
2B09	F2
2B10	F3
2B11	F4
2B12	G3
2B13	G3
2B14	G3
2B15	G3
2B16	H3
2B17	H3
2B18	H3
2B19	H3
2B20	I3
2B21	C6
2B22	E5
2B23	D6
2B24	E4
2B25	E6
2B26	E4
2B27	H4
2B28	E6
2B29	G4
2B30	G4
2B31	I4
2B32	I3
2B33	I3
2B34	I3
2B35	I5
2B36	H4
3B30	E5
3B32	E6
3B34	F6
3B36	A6
3B37	G6
3B38	G6
3B39	F9
3B40	C10
3B41	F9
3B42	F9
3B43	G9
3B44	F9
3B45	C13
3B46	F9
3B47	E3
3B56-1	C9
3B56-2	C10
3B56-3	C9
3B56-4	C10
3B57-1	D9
3B57-2	D10
3B57-3	D9
3B57-4	D9
3B58-1	D9
3B58-2	D9
3B58-3	D9
3B58-4	E9
3B59-1	C9
3B59-2	C10
3B59-3	C9
3B59-4	D10
3B60	F11
3B61	F11
3B62-1	D9
3B62-2	D9
3B62-3	D9
3B62-4	D9
3B63	E3
3B64	E2
3B65	F3
3B66	F2
3B67	F3
3B68	G3
3B69	G3
3B70	G3
3B71	G3
3B72	H3
3B73	H3
3B74	H2
3B75	H3
3B76	I3
3B77	I3
3B78	I2
3B79	I3
3B80	F9
5B03	E3
5B04	E3
5B05	F3
5B06	G3
5B07	G3
5B08	H3
5B09	H3
5B13	I3
5B14	I3
7B11-1	C8
7B11-2	C12
9B11	E13
9B12	F11
9B13	D13
9B14	D13
9B15	D14
9B16	C11
9B17	C11
9B18	C11
9B19	D11
9B20	C2
9B21	C2
9B22	D2
9B23	D2
9B30	D7
FB40	F9
FB45	F9
IB03	E3
IB04	E3
IB05	A6
IB06	F7
IB07	F3
IB08	F3
IB09	G3
IB15	H3
IB16	H3
IB17	I3
IB18	I3
IB20	G7
IB24	E13
IB46	E13

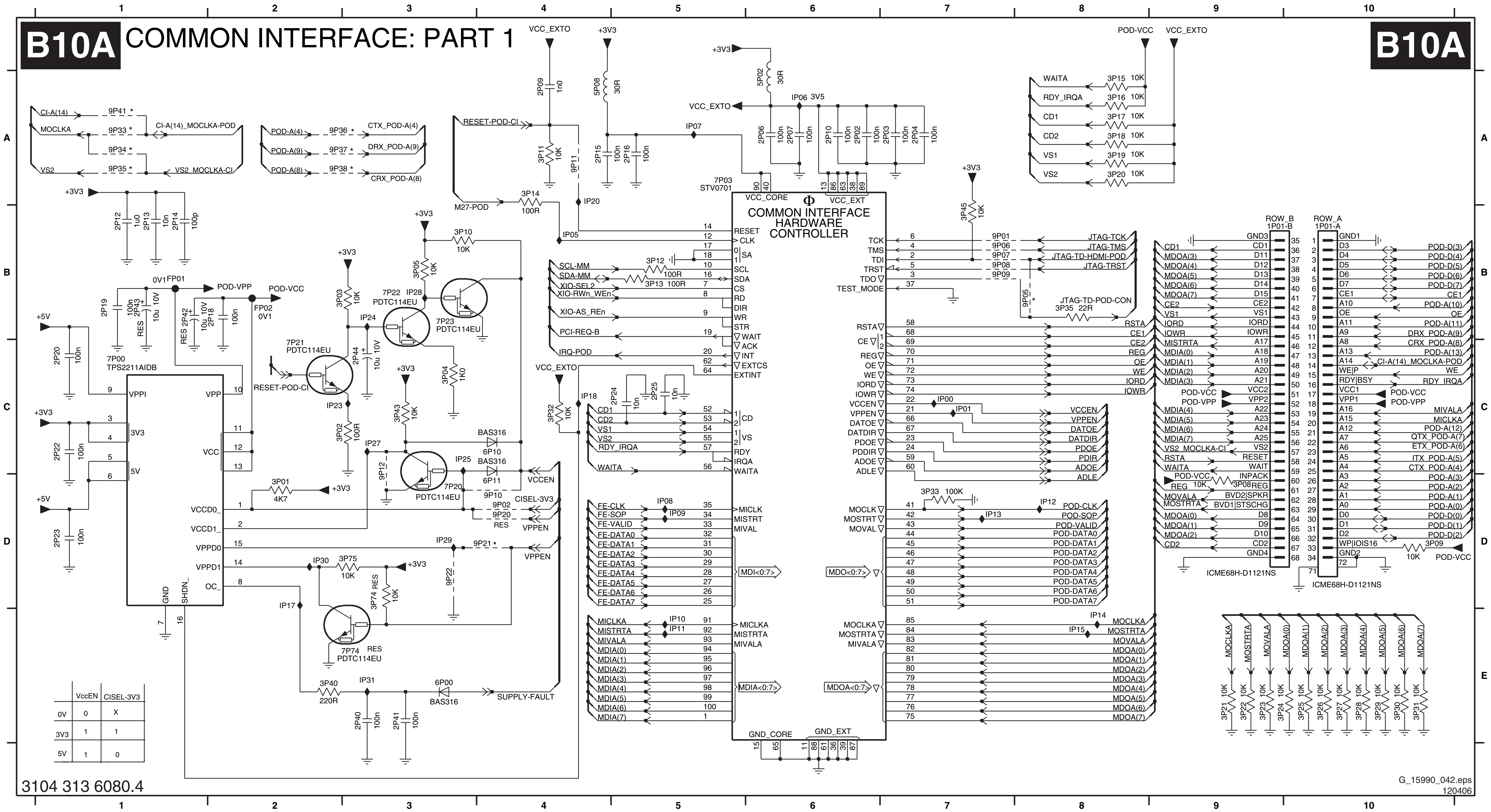
SSB: HDMI: Supply


B9C
HDMI: SUPPLY
B9C
+3V3
5B17
220R
FB57
3V3-APLL
2B52
100n
3V3-AVI
2B40
100n
2B41
100n
2B42
100n
+3V3-AV
5B10
220R
FB50
3V3-AVI
2B67
47u 4V
+3V3
5B11
220R
FB51
3V3-PLL
2B69
100n
3V3-DIG
2B49
100n
2B51
100n
2B53
100n
+3V3
5B12
220R
FB52
3V3-DIG
3V3-DIG
2B62
100n
2B64
100n
+1V8
2B79
100n
+1V8
2B80
100n
2B81
100n
+3V3
3B52
330R
3B53
3R3
IB47
IB48
7B13
BC817-25
IB44
3B51
4R7
7B12
TS431L
2B89
10n
IB49
3B50
470R
2B90
47u 4V
3B48
1K0
3B49
47K
FB55
+1V8
FB56
1V8-PLL
2B77
100n
5B18
120R
2B92
100n
7B06
LD1117DT33
IN
OUT
COM
+5V
2B38
1u0
FB15
+3V3-AV
2B39
330u 6.3V
7B11-3
TDA9975
HDMI SUPPLY PART
VDDAPLL
VDD18APLL
VDDR
VDDG
VDDB
VDDBIAS
VDDSOG
VDDFRO
VDDPLL
VDD18PLL
VDD18HDMI
VDD18RRX
VDDRX2A
VDDRX2B
VDDRX1A
VDDRX1B
VDDRX0A
VDDRX0B
VDDRXC
VDD18CORE
OTP7V
IB45
VDDIN
VDDQ0
VDDQ1
VDDQ3
VDDQ4
VDDQ5
VDDQ6
VDDQ7
VDDQ8
VDDQ9
GNDAVI
GNDAPLL
GNDHDMI
GNDCORE
GNDI2C
GNDOUT
THERMAL GROUNDS
3104 313 6080.4
G_15990_041.eps
120406

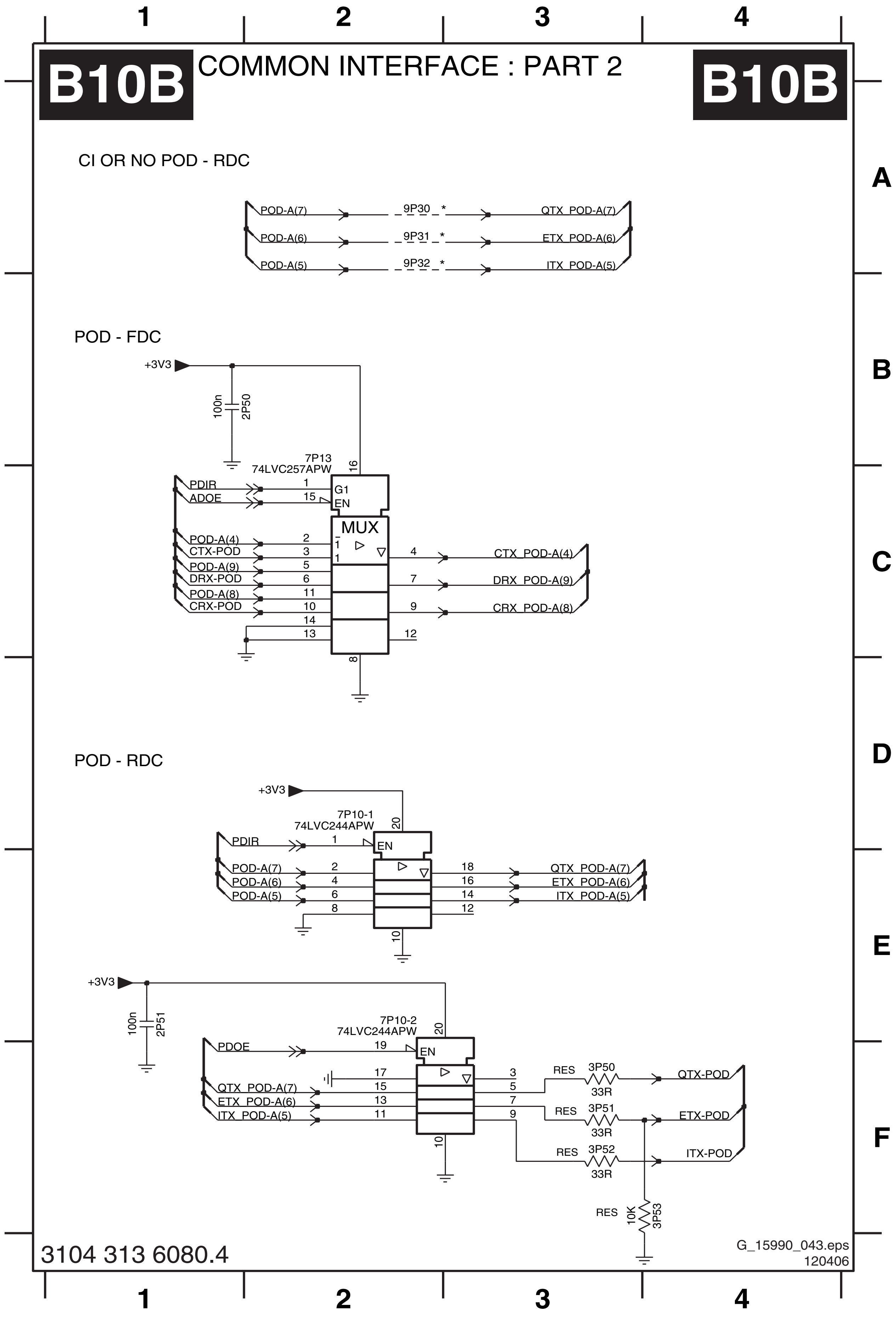
2B38	F5
2B39	F6
2B40	A3
2B41	A3
2B42	A4
2B49	C3
2B51	C3
2B52	A2
2B53	C4
2B62	D3
2B64	D4
2B67	B1
2B69	C2
2B77	F4
2B79	C5
2B80	C5
2B81	C5
2B89	E1
2B90	F2
2B92	F4
3B48	F1
3B49	F1
3B50	E2
3B51	E2
3B52	D1
3B53	D2
5B10	B1
5B11	C1
5B12	C1
5B17	A1
5B18	F3
7B06	F5
7B11-3	A8
7B12	E1
7B13	E2
FB15	F6
FB50	B2
FB51	C2
FB52	C2
FB55	E4
FB56	E4
FB57	A2
IB44	E2
IB45	D6
IB47	D2
IB48	E1
IB49	E2

SSB: Common Interface: Part 1

1P01-A	B10
1P01-B	B9
2P02	A6
2P03	A7
2P04	A7
2P06	A6
2P07	A6
2P09	A4
2P10	A6
2P12	B1
2P13	B1
2P14	B1
2P15	A4
2P16	A5
2P18	B2
2P19	B1
2P20	C1
2P22	C1
2P23	D1
2P24	C4
2P25	C5
2P40	E3
2P41	E3
2P42	B1
2P43	B1
2P44	C3
3P01	D2
3P02	C2
3P03	B2
3P04	C3
3P05	B3
3P08	D9
3P09	D10
3P10	B3
3P11	A4
3P12	B5
3P13	B5
3P14	A4
3P15	A8
3P16	A8
3P17	A8
3P18	A8
3P19	A8
3P20	A8
3P21	E9
3P22	E9
3P23	E9
3P24	E9
3P25	E10
3P26	E10
3P27	E10
3P28	E10
3P29	E10
3P30	E10
3P31	E10
3P32	C4
3P33	D7
3P35	B8
3P40	E2
3P43	C3
3P45	B7
3P74	D3
3P75	D3
5P02	A6
5P08	A4
6P00	E3
6P10	C4
6P11	D4
7P00	C1
7P03	A5
7P20	D3
7P21	C2
7P22	B3
7P23	B3
7P74	E3
9P01	B7
9P02	D4
9P05	B8
9P06	B7
9P07	B7
9P08	B7
9P09	B7
9P10	D4
9P11	A4
9P12	C3
9P20	D4
9P21	D4
9P22	D3
9P33	A1
9P34	A1
9P35	A1
9P36	A2
9P37	A2
9P38	A2
9P41	A1
FP01	B1
FP02	B2
IP00	C7
IP01	C7
IP05	B4
IP06	A6
IP07	A5
IP08	D5
IP09	D5
IP10	E5
IP11	E5
IP12	D8
IP13	D7
IP14	E8
IP15	E8
IP17	D2
IP18	C4
IP20	A4
IP23	C2
IP24	B3
IP25	C3
IP27	C3
IP28	B3
IP29	D3
IP30	D2
IP31	E3


B10A
COMMON INTERFACE: PART 1
1 2 3 4 5 6 7 8 9 10
A B C D E
VCC_EXTO
+3V3
POD-VCC
+5V
COMMON INTERFACE HARDWARE CONTROLLER
7P03 STV0701
VCC_CORE
VCC_EXT
GND_CORE
GND_EXT
RESET
CLK
SA
SCL
SDA
CS
RD
DIR
WR
STR
WAIT
ACK
INT
EXTCS
EXTINT
CD
VS
RDY
IRQA
WAITA
MICLK
MISTRT
MIVAL
MDI<0:7>
MICLKA
MISTRTA
MIVALA
MDIA<0:7>
TCK
TMS
TDI
TRST
TDO
TEST_MODE
RSTA
CE
REG
OE
WE
IORD
IOWR
VCCEN
VPPEN
DATOE
DATDIR
PDOE
PDDIR
ADOE
ADLE
MOCLK
MOSTRT
MOVAL
MDO<0:7>
MOCLKA
MOSTRTA
MIVALA
MDOA<0:7>
7P00 TPS2211AIDB
VPPI
VPP
3V3
5V
VCC
VCCD0_
VCCD1_
VPPD0
VPPD1
OC_
GND
SHDN_
POD-VPP
7P21 PDTC114EU
7P22 PDTC114EU
7P23 PDTC114EU
7P20 PDTC114EU
7P74 PDTC114EU
RESET-POD-CI
M27-POD
SCL-MM
SDA-MM
XIO-SEL2
XIO-RWn_REn
XIO-AS_REn
PCI-REQ-B
IRQ-POD
FE-CLK
FE-SOP
FE-VALID
FE-DATA0 … FE-DATA7
MDIA(0) … MDIA(7)
POD-CLK
POD-SOP
POD-VALID
POD-DATA0 … POD-DATA7
MDOA(0) … MDOA(7)
JTAG-TCK
JTAG-TMS
JTAG-TD-HDMI-POD
JTAG-TRST
JTAG-TD-POD-CON
CI-A(14)
MOCLKA
VS2
CI-A(14)_MOCLKA-POD
VS2_MOCLKA-CI
POD-A(4)
POD-A(9)
POD-A(8)
CTX_POD-A(4)
DRX_POD-A(9)
CRX_POD-A(8)
WAITA
RDY_IRQA
CD1
CD2
VS1
VCCEN
VPPEN
CISEL-3V3
RES
SUPPLY-FAULT
BAS316
ROW_B 1P01-B
ROW_A 1P01-A
ICME68H-D1121NS
POD-D(0) … POD-D(7)
POD-A(0) … POD-A(13)
MIVALA
MICLKA
ITX_POD-A(5)
ETX_POD-A(6)
QTX_POD-A(7)
CTX_POD-A(4)
CRX_POD-A(8)
DRX_POD-A(9)
RDY_IRQA
WE
OE
CE1
VccEN CISEL-3V3
0V 0 X
3V3 1 1
5V 1 0
3104 313 6080.4
G_15990_042.eps
120406

SSB: Common Interface: Part 2

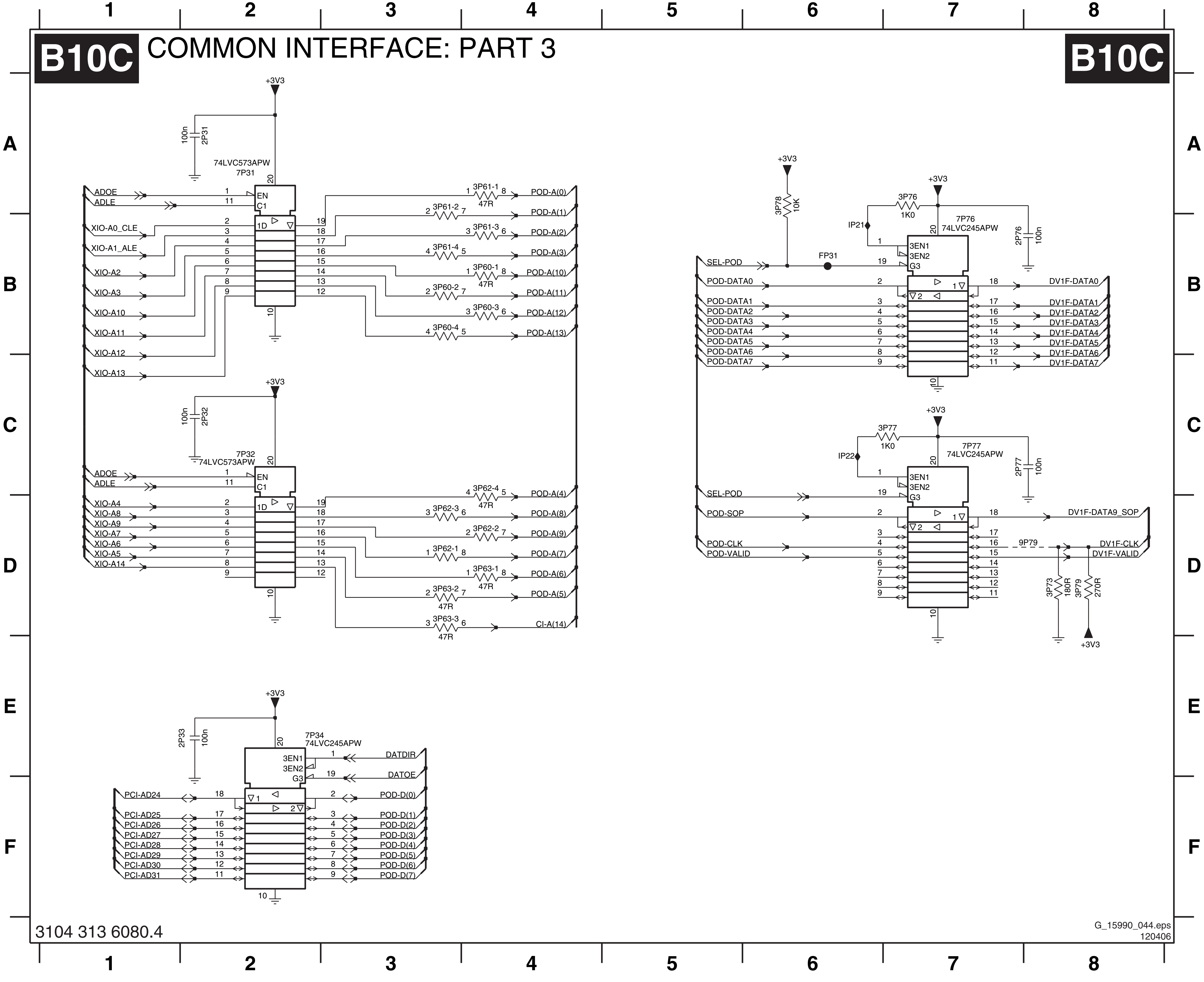

1
2
3
4
B10B
COMMON INTERFACE : PART 2
B10B
A
B
C
D
E
F
CI OR NO POD - RDC
POD-A(7)
POD-A(6)
POD-A(5)
9P30 *
9P31 *
9P32 *
QTX_POD-A(7)
ETX_POD-A(6)
ITX_POD-A(5)
POD - FDC
+3V3
100n
2P50
7P13
74LVC257APW
16
PDIR
ADOE
G1
EN
MUX
POD-A(4)
CTX-POD
POD-A(9)
DRX-POD
POD-A(8)
CRX-POD
CTX_POD-A(4)
DRX_POD-A(9)
CRX_POD-A(8)
8
POD - RDC
+3V3
7P10-1
74LVC244APW
20
PDIR
EN
POD-A(7)
POD-A(6)
POD-A(5)
QTX_POD-A(7)
ETX_POD-A(6)
ITX_POD-A(5)
10
+3V3
100n
2P51
7P10-2
74LVC244APW
20
PDOE
EN
QTX_POD-A(7)
ETX_POD-A(6)
ITX_POD-A(5)
10
RES
3P50
33R
QTX-POD
RES
3P51
33R
ETX-POD
RES
3P52
33R
ITX-POD
RES
10K
3P53
3104 313 6080.4
G_15990_043.eps
120406

2P50	B1
2P51	E1
3P50	F3
3P51	F3
3P52	F3
3P53	F4
7P10	D2
7P10	E2
7P13	B2
9P30	A2
9P31	A2
9P32	A2

Personal Notes:

E_06532_012.eps
131004

SSB: Common Interface: Part 3


B10C
COMMON INTERFACE: PART 3
B10C
+3V3
100n
2P31
74LVC573APW
7P31
ADOE
ADLE
XIO-A0_CLE
XIO-A1_ALE
XIO-A2
XIO-A3
XIO-A10
XIO-A11
XIO-A12
XIO-A13
EN
C1
1D
3P61-1 47R
3P61-2 47R
3P61-3
3P61-4
3P60-1 47R
3P60-2
3P60-3
3P60-4
POD-A(0)
POD-A(1)
POD-A(2)
POD-A(3)
POD-A(10)
POD-A(11)
POD-A(12)
POD-A(13)
2P32
7P32
74LVC573APW
XIO-A4
XIO-A8
XIO-A9
XIO-A7
XIO-A6
XIO-A5
XIO-A14
3P62-4 47R
3P62-3
3P62-2
3P62-1
3P63-1 47R
3P63-2 47R
3P63-3 47R
POD-A(4)
POD-A(8)
POD-A(9)
POD-A(7)
POD-A(6)
POD-A(5)
CI-A(14)
2P33
100n
7P34
74LVC245APW
3EN1
3EN2
G3
DATDIR
DATOE
PCI-AD24
PCI-AD25
PCI-AD26
PCI-AD27
PCI-AD28
PCI-AD29
PCI-AD30
PCI-AD31
POD-D(0)
POD-D(1)
POD-D(2)
POD-D(3)
POD-D(4)
POD-D(5)
POD-D(6)
POD-D(7)
3P78 10K
3P76 1K0
IP21
7P76
74LVC245APW
2P76 100n
FP31
SEL-POD
POD-DATA0
POD-DATA1
POD-DATA2
POD-DATA3
POD-DATA4
POD-DATA5
POD-DATA6
POD-DATA7
DV1F-DATA0
DV1F-DATA1
DV1F-DATA2
DV1F-DATA3
DV1F-DATA4
DV1F-DATA5
DV1F-DATA6
DV1F-DATA7
3P77 1K0
IP22
7P77
74LVC245APW
2P77 100n
SEL-POD
POD-SOP
POD-CLK
POD-VALID
DV1F-DATA9_SOP
9P79
DV1F-CLK
DV1F-VALID
3P73 180R
3P79 270R
+3V3
A
B
C
D
E
F
1
2
3
4
5
6
7
8

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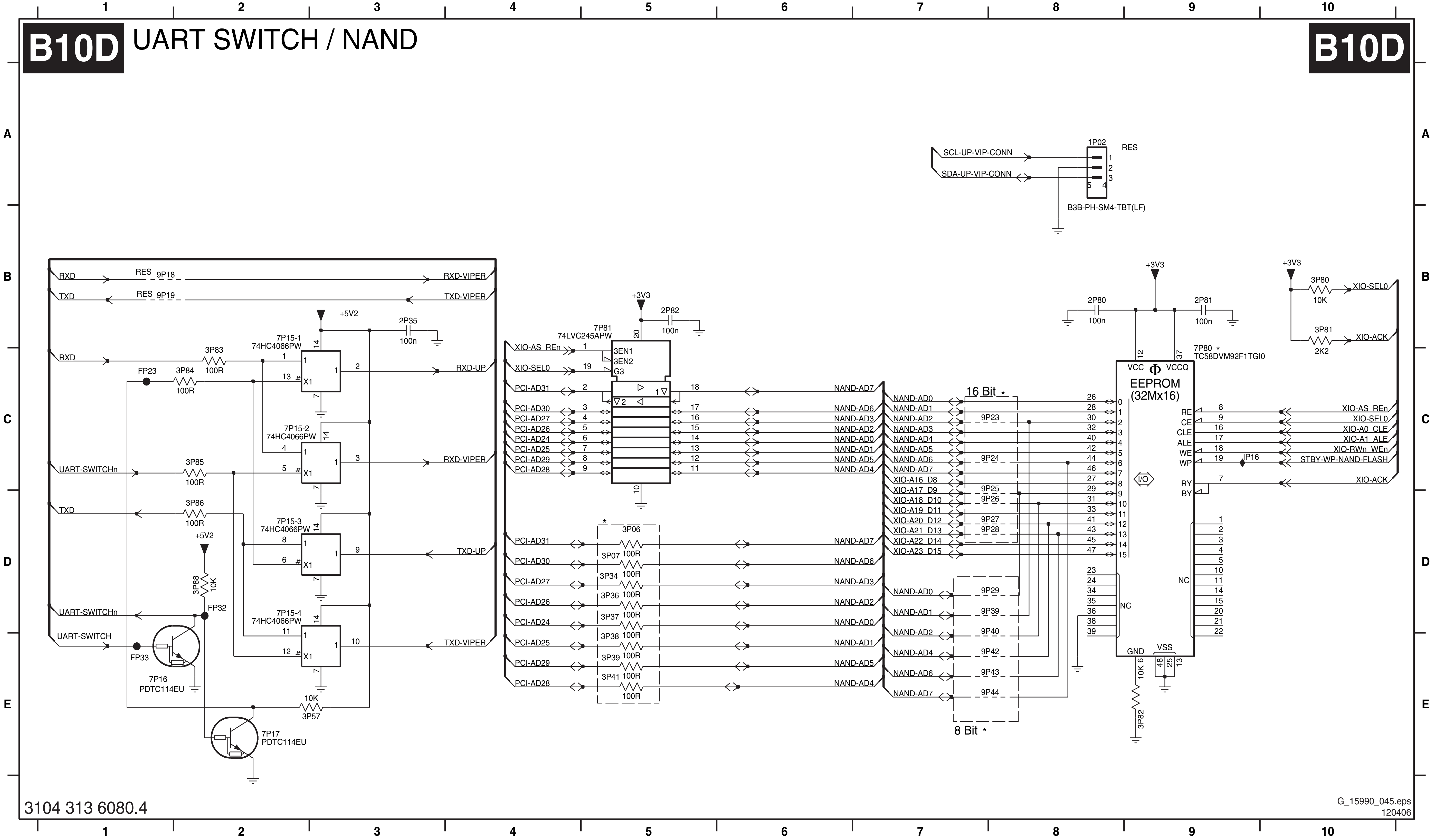
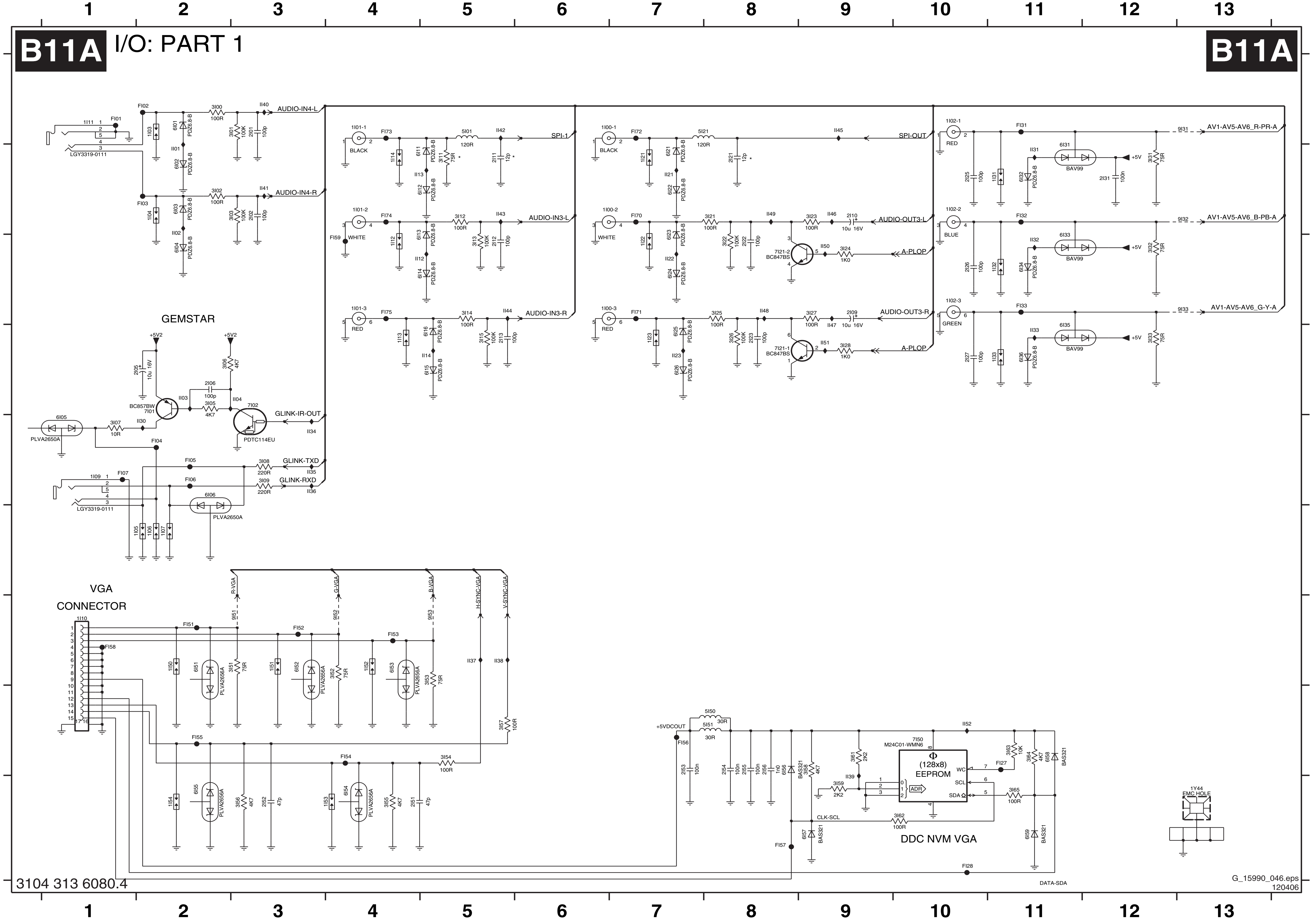
2P31	A2
2P32	C2
2P33	E2
2P76	B7
2P77	C7
3P60-1	B4
3P60-2	B3
3P60-3	B4
3P60-4	B3
3P61-1	A4
3P61-2	A3
3P61-3	B4
3P61-4	B3
3P62-1	D3
3P62-2	D4
3P62-3	D3
3P62-4	C4
3P63-1	D4
3P63-2	D3
3P63-3	D3
3P73	D8
3P76	A7
3P77	C7
3P78	A6
3P79	D8
7P31	A2
7P32	C2
7P34	E2
7P76	B7
7P77	C7
9P79	D8
FP31	B6
IP21	B6
IP22	C6

SSB: UART Switch / NAND

1P02 A8
2P35 B3
2P80 B8
2P81 B9
2P82 B5
3P06 D5
3P07 D5
3P34 D5
3P36 D5
3P37 D5
3P38 E5
3P39 E5
3P41 E5
3P57 E3
3P80 B10
3P81 B10
3P82 E9
3P83 C2
3P84 C2
3P85 C2
3P86 D2
3P88 D2
7P15-1 B2
7P15-2 C2
7P15-3 D2
7P15-4 D2
7P16 E1
7P17 E2
7P80 C9
7P81 B5
9P18 B1
9P19 B1
9P23 C8
9P24 C8
9P25 D8
9P26 D8
9P27 D8
9P28 D8
9P29 D8
9P39 D8
9P40 E8
9P42 E8
9P43 E8
9P44 E8
FP23 C1
FP32 D2
FP33 E1
IP16 C9


B10D
UART SWITCH / NAND
B10D
SCL-UP-VIP-CONN
SDA-UP-VIP-CONN
1P02
RES
B3B-PH-SM4-TBT(LF)
RXD
TXD
RES 9P18
RES 9P19
RXD-VIPER
TXD-VIPER
+5V2
2P35 100n
7P15-1 74HC4066PW
7P15-2 74HC4066PW
7P15-3 74HC4066PW
7P15-4 74HC4066PW
3P83 100R
3P84 100R
3P85 100R
3P86 100R
FP23
RXD-UP
RXD-VIPER
TXD-UP
TXD-VIPER
UART-SWITCHn
UART-SWITCH
3P88 10K
FP32
FP33
7P16 PDTC114EU
7P17 PDTC114EU
10K 3P57
+3V3
2P82 100n
7P81 74LVC245APW
3EN1
3EN2
G3
XIO-AS_REn
XIO-SEL0
PCI-AD31
PCI-AD30
PCI-AD27
PCI-AD26
PCI-AD24
PCI-AD25
PCI-AD29
PCI-AD28
NAND-AD7
NAND-AD6
NAND-AD3
NAND-AD2
NAND-AD0
NAND-AD1
NAND-AD5
NAND-AD4
3P06
3P07 100R
3P34 100R
3P36 100R
3P37 100R
3P38 100R
3P39 100R
3P41 100R
100R
16 Bit *
8 Bit *
9P23
9P24
9P25
9P26
9P27
9P28
9P29
9P39
9P40
9P42
9P43
9P44
XIO-A16 D8
XIO-A17 D9
XIO-A18 D10
XIO-A19 D11
XIO-A20 D12
XIO-A21 D13
XIO-A22 D14
XIO-A23 D15
2P80 100n
2P81 100n
7P80 * TC58DVM92F1TGI0
VCC
VCCQ
EEPROM (32Mx16)
RE
CE
CLE
ALE
WE
WP
RY
BY
NC
GND
VSS
I/O
3P82 10K
3P80 10K
3P81 2K2
XIO-SEL0
XIO-ACK
XIO-AS_REn
XIO-A0_CLE
XIO-A1_ALE
XIO-RWn_WEn
STBY-WP-NAND-FLASH
IP16
3104 313 6080.4
G_15990_045.eps
120406

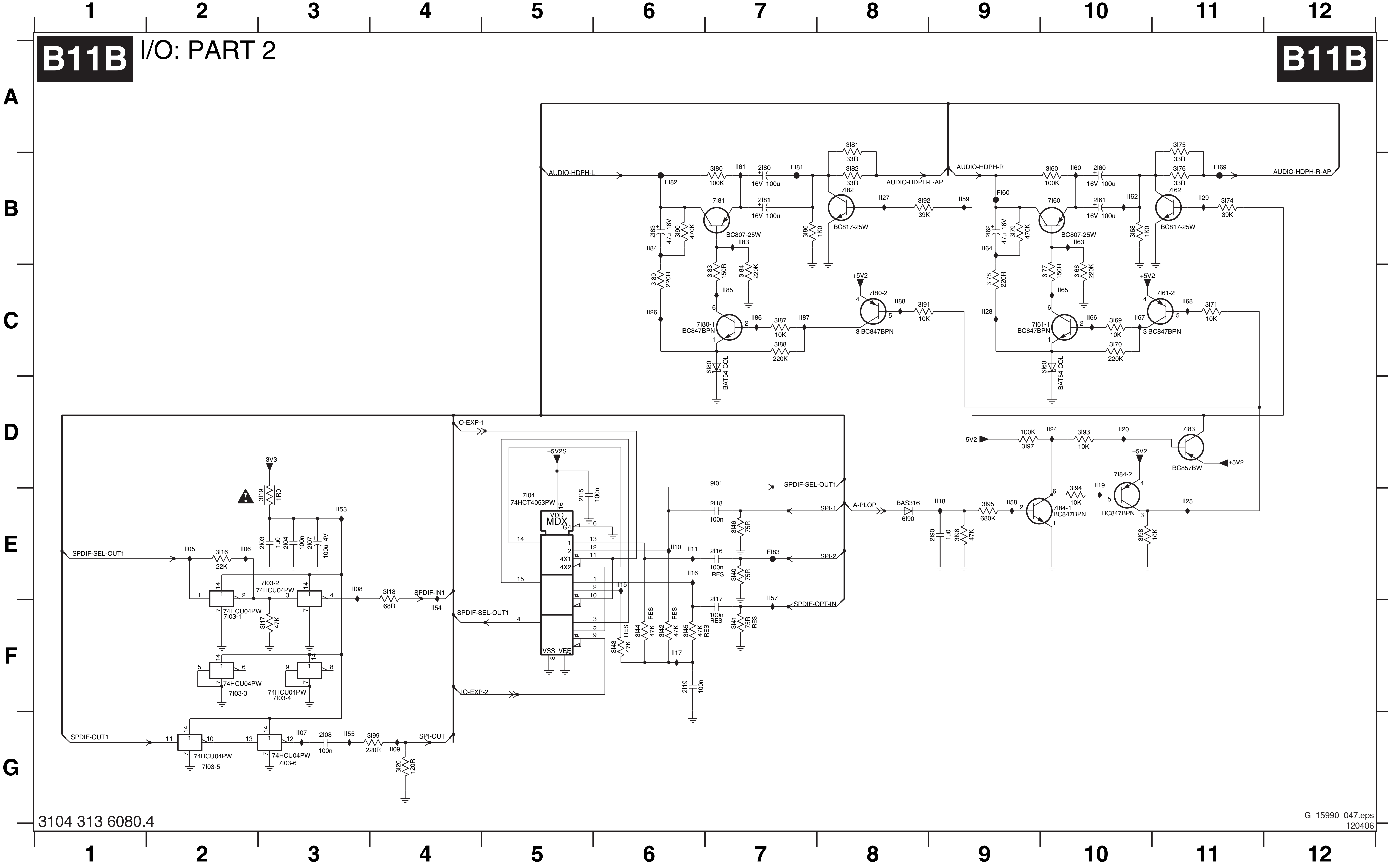
SSB: I/O Part 1


B11A
I/O: PART 1
B11A
AUDIO-IN4-L
AUDIO-IN4-R
SPI-1
AUDIO-IN3-L
AUDIO-IN3-R
SPI-OUT
AUDIO-OUT3-L
A-PLOP
AUDIO-OUT3-R
A-PLOP
AV1-AV5-AV6_R-PR-A
AV1-AV5-AV6_B-PB-A
AV1-AV5-AV6_G-Y-A
BLACK
WHITE
RED
BLUE
GREEN
GEMSTAR
BC857BW
7I01
7I02
PDTC114EU
GLINK-IR-OUT
GLINK-TXD
GLINK-RXD
PLVA2650A
LGY3319-0111
VGA
CONNECTOR
R-VGA
G-VGA
B-VGA
H-SYNC-VGA
V-SYNC-VGA
PLVA2656A
+5VDCOUT
7I50
M24C01-WMN6
(128x8)
EEPROM
WC
SCL
SDA
ADR
CLK-SCL
DATA-SDA
BAS321
BAV99
DDC NVM VGA
1Y44
EMC HOLE
3104 313 6080.4
G_15990_046.eps
120406

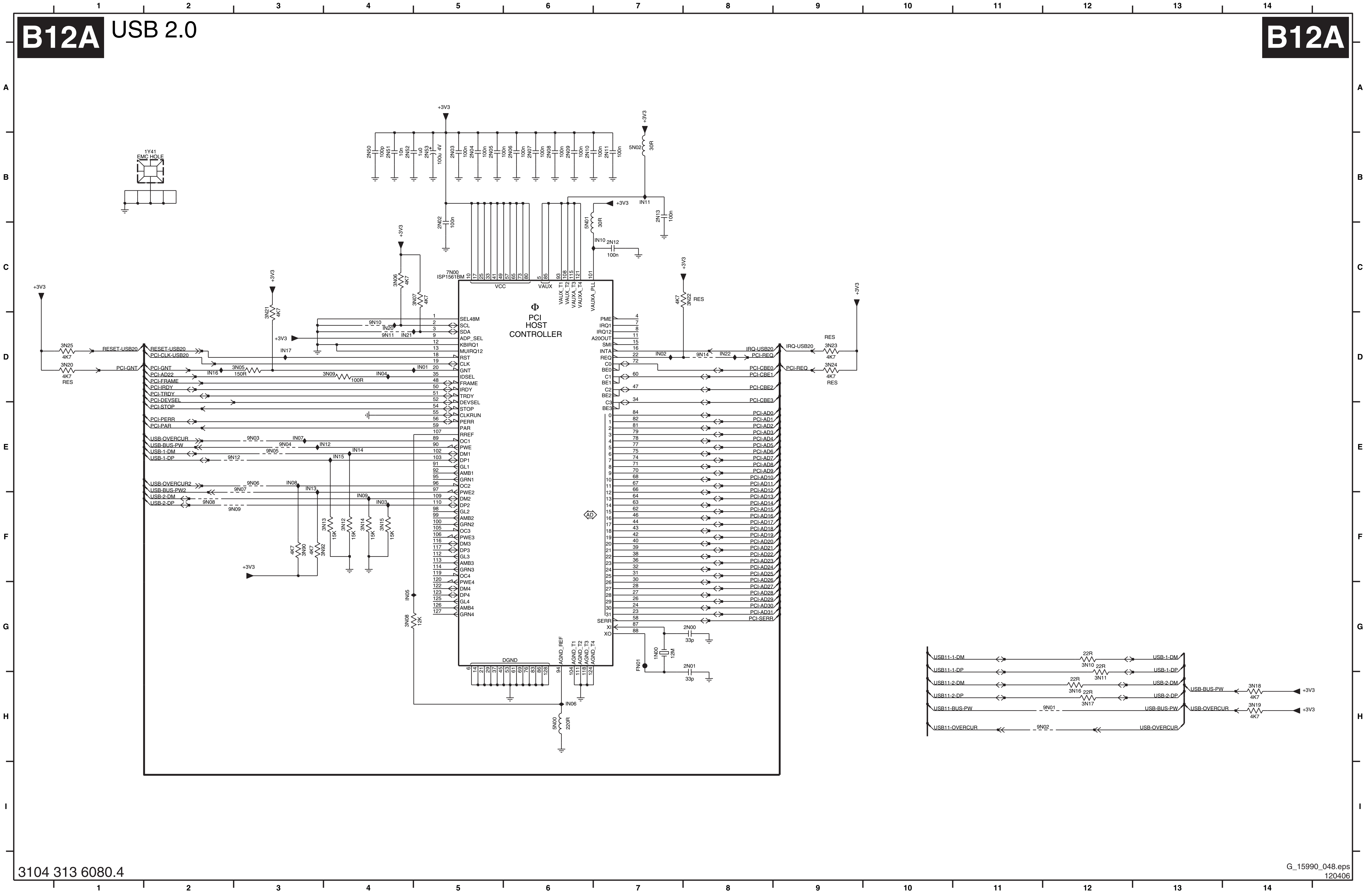
1I00-1	A6
1I00-2	B7
1I00-3	C6
1I01-1	A4
1I01-2	B4
1I01-3	C4
1I02-1	A10
1I02-2	B10
1I02-3	C10
1I03	A2
1I04	B2
1I05	F2
1I06	F2
1I07	F2
1I09	E1
1I10	G1
1I11	A1
1I12	C4
1I13	D4
1I14	B4
1I21	B7
1I22	C7
1I23	D7
1I31	B11
1I32	C11
1I33	D11
1I50	G2
1I51	G3
1I52	G4
1I53	I4
1I54	I2
1Y44	I13
2I01	A3
2I02	B3
2I05	D2
2I06	D2
2I09	C9
2I10	B9
2I11	B5
2I12	C5
2I13	D5
2I21	B8
2I22	C8
2I23	D8
2I25	B10
2I26	C10
2I27	D10
2I31	B12
2I51	I4
2I52	I3
2I53	H7
2I54	H8
2I55	H8
2I56	H8
3I00	A2
3I01	A3
3I02	B2
3I03	B3
3I05	D2
3I06	D2
3I07	E1
3I08	E3
3I09	E3
3I11	B5
3I12	B5
3I13	C5
3I14	C5
3I15	D5
3I21	B8
3I22	C8
3I23	B9
3I24	C9
3I25	C8
3I26	D8
3I27	C9
3I28	D9
3I31	B12
3I32	C12
3I33	D12
3I51	G3
3I52	G4
3I53	G5
3I54	H5
3I55	I4
3I56	I3
3I57	H5
3I58	H9
3I59	I9
3I61	H9
3I62	I10
3I63	H11
3I64	H11
3I65	I11
5I01	A5
5I21	A7
5I50	H8
5I51	H8
6I01	A2
6I02	B2
6I03	B2
6I04	C2
6I05	E1
6I06	E2
6I11	B4
6I12	B5
6I13	C4
6I14	C5
6I15	D5
6I16	D5
6I21	B7
6I22	B7
6I23	C7
6I24	C7
6I25	D7
6I26	D7
6I31	A11
6I32	B11
6I33	B11
6I34	C11
6I35	C11
6I36	D11
6I51	G2
6I52	G3
6I53	G4
6I54	I4
6I55	I2
6I56	H8
6I57	I9
6I58	H11
6I59	I11
7I01	D2
7I02	D3
7I21-1	D8
7I21-2	C8
7I50	H10
9I31	A13
9I32	B13
9I33	C13
9I51	G3
9I52	G4
9I53	G5
FI01	A1
FI02	A2
FI03	B2
FI04	E2
FI05	E2
FI06	E2
FI07	E1
FI27	H11
FI28	I10
FI31	A11
FI32	B11
FI33	C11
FI51	G2
FI52	G3
FI53	G4
FI54	H4
FI55	H2
FI56	H7
FI57	I8
FI58	G1
FI59	C4
FI70	B7
FI71	C7
FI72	A7
FI73	A4
FI74	B4
FI75	C4
II01	B2
II02	B2
II03	D2
II04	D3
II12	C4
II13	B4
II14	D5
II21	B7
II22	C7
II23	D7
II30	E2
II31	B11
II32	C11
II33	D11
II34	E3
II35	E3
II36	E3
II37	G5
II38	G5
II39	I9
II40	A3
II41	B3
II42	A5
II43	B5
II44	C5
II45	A9
II46	B9
II47	D9
II48	C8
II49	B8
II50	C9
II51	D9
II52	H10

SSB: I/O Part 2

2I03 E3
2I04 E3
2I07 E3
2I08 G3
2I15 E5
2I16 E7
2I17 F7
2I18 E7
2I19 F6
2I60 B10
2I61 B10
2I62 B9
2I80 B7
2I81 B7
2I83 B6
2I90 E9
3I16 E2
3I17 F3
3I18 E4
3I19 E3
3I20 G4
3I40 E7
3I41 F7
3I42 F6
3I43 F6
3I44 F6
3I45 F6
3I46 E7
3I60 B10
3I66 C10
3I68 B10
3I69 C10
3I70 C10
3I71 C11
3I74 B11
3I75 A11
3I76 B11
3I77 C10
3I78 C9
3I79 B9
3I80 B7
3I81 A8
3I82 B8
3I83 C7
3I84 C7
3I86 B7
3I87 C7
3I88 C7
3I89 C6
3I90 B6
3I91 C8
3I92 B8
3I93 D10
3I94 E10
3I95 E9
3I96 E9
3I97 D9
3I98 E10
3I99 G4
6I60 C10
6I80 C7
6I90 E8
7I03-1 E2
7I03-2 E3
7I03-3 F2
7I03-4 F3
7I03-5 G2
7I03-6 G3
7I04 E5
7I60 B10
7I61-1 C10
7I61-2 C11
7I62 B11
7I80-1 C7
7I80-2 C8
7I81 B7
7I82 B8
7I83 D11
7I84-1 E10
7I84-2 D10
9I01 D7
FI60 B9
FI69 B11
FI81 B7
FI82 B6
FI83 E7
II05 E2
II06 E2
II07 G3
II08 E3
II09 G4
II10 E6
II11 E6
II15 E6
II16 E6
II17 F6
II18 E9
II19 D10
II20 D10
II24 D10
II25 E11
II26 C6
II27 B8
II28 C9
II29 B11
II53 E3
II54 F4
II55 G4
II57 E7
II58 E9
II59 B9
II60 B10
II61 B7
II62 B10
II63 B10
II64 B9
II65 C10
II66 C10
II67 C10
II68 C11
II83 B7
II84 B6
II85 C7
II86 C7
II87 C7
II88 C8

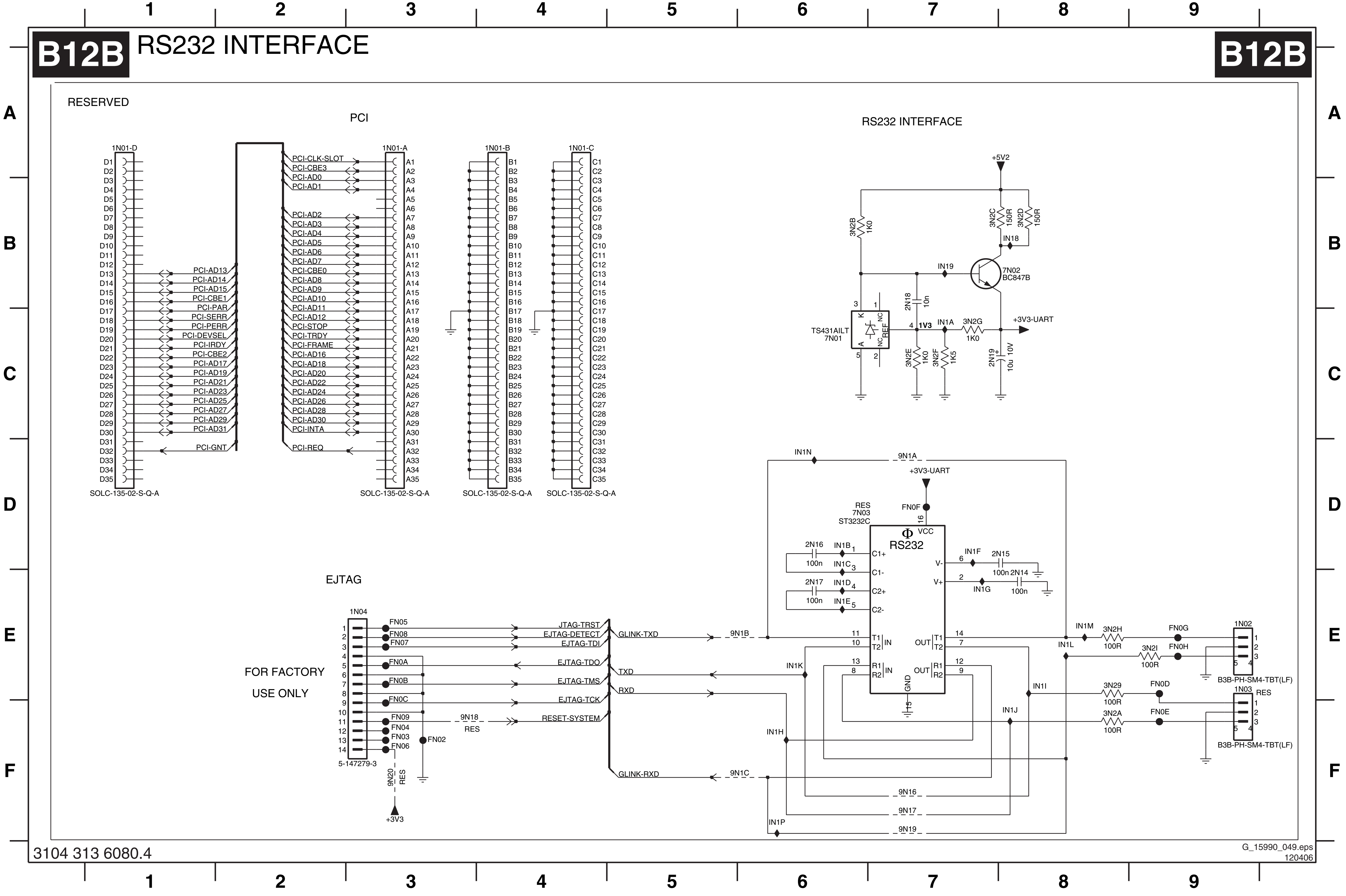

1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F
G
B11B
I/O: PART 2
B11B
AUDIO-HDPH-L
FI82
3I80
100K
II61
2I80
16V 100u
FI81
3I81
33R
3I82
33R
AUDIO-HDPH-L-AP
7I82
BC817-25W
II27
3I92
39K
II59
7I81
BC807-25W
2I81
16V 100u
2I83
47u 16V
3I90
470K
II84
II83
3I83
150R
3I84
220K
3I86
1K0
3I89
220R
II85
II26
7I80-1
BC847BPN
II86
3I87
10K
II87
3I88
220K
+5V2
7I80-2
BC847BPN
II88
3I91
10K
6I80
BAT54 COL
AUDIO-HDPH-R
FI60
3I60
100K
II60
2I60
16V 100u
3I75
33R
3I76
33R
FI69
AUDIO-HDPH-R-AP
7I60
BC807-25W
2I61
16V 100u
II62
7I62
BC817-25W
II29
3I74
39K
2I62
47u 16V
3I79
470K
3I68
1K0
II64
II63
3I77
150R
3I66
220K
3I78
220R
II65
II28
7I61-1
BC847BPN
II66
3I69
10K
II67
7I61-2
BC847BPN
II68
3I71
10K
3I70
220K
6I60
BAT54 COL
7I83
BC857BW
+5V2
100K
3I97
II24
3I93
10K
II20
+5V2
7I84-2
BC847BPN
3I94
10K
II19
II25
7I84-1
BC847BPN
II58
3I95
680K
II18
BAS316
6I90
A-PLOP
2I90
1u0
3I96
47K
3I98
10K
IO-EXP-1
+5V2S
7I04
74HCT4053PW
VDD
MDX
G4
2I15
100n
4X1
4X2
VSS
VEE
9I01
SPDIF-SEL-OUT1
SPI-1
2I18
100n
3I46
75R
II10
II11
2I16
100n
RES
FI83
SPI-2
3I40
75R
II16
II15
2I17
100n
RES
II57
SPDIF-OPT-IN
3I41
75R
RES
3I43
47K
RES
3I44
47K
RES
3I42
47K
RES
3I45
47K
RES
II17
2I19
100n
SPDIF-SEL-OUT1
IO-EXP-2
+3V3
3I19
1R0
II53
2I03
1u0
2I04
100n
2I07
100u 4V
SPDIF-SEL-OUT1
II05
3I16
22K
II06
7I03-1
74HCU04PW
7I03-2
74HCU04PW
II08
3I18
68R
SPDIF-IN1
II54
3I17
47K
74HCU04PW
7I03-3
74HCU04PW
7I03-4
SPDIF-OUT1
74HCU04PW
7I03-5
74HCU04PW
7I03-6
II07
2I08
100n
II55
3I99
220R
II09
SPI-OUT
3I20
120R
3104 313 6080.4
G_15990_047.eps
120406

SSB: USB 2.0


B12A
USB 2.0
B12A
7N00
ISP1561BM
PCI
HOST
CONTROLLER
VCC
VAUX
DGND
RESET-USB20
PCI-GNT
PCI-REQ
IRQ-USB20
USB-OVERCUR
USB-BUS-PW
USB-1-DM
USB-1-DP
USB-OVERCUR2
USB-BUS-PW2
USB-2-DM
USB-2-DP
USB11-1-DM
USB11-1-DP
USB11-2-DM
USB11-2-DP
USB11-BUS-PW
USB11-OVERCUR
+3V3
1Y41
EMC HOLE
3104 313 6080.4
G_15990_048.eps
120406

1N00	G7
1Y41	B2
2N00	G8
2N01	G8
2N02	C5
2N03	B5
2N04	B5
2N05	B5
2N06	B6
2N07	B6
2N08	B6
2N09	B6
2N10	B6
2N11	B7
2N12	C7
2N13	B7
2N50	B4
2N51	B4
2N52	B4
2N53	B5
3N05	D3
3N06	C4
3N07	C5
3N08	G4
3N09	D4
3N10	G12
3N11	H12
3N12	F4
3N13	F4
3N14	F4
3N15	F4
3N16	H12
3N17	H12
3N18	H14
3N19	H14
3N20	D1
3N21	D3
3N22	C8
3N23	D9
3N24	D9
3N25	D1
3N90	F3
3N92	F3
5N00	H6
5N01	C6
5N02	B7
7N00	C5
9N01	H12
9N02	H12
9N03	E3
9N04	E3
9N05	E3
9N06	E3
9N07	E3
9N08	F2
9N09	F3
9N10	D4
9N11	D4
9N12	E3
9N14	D8
FN01	G7
IN01	D5
IN02	D7
IN03	F4
IN04	D4
IN05	G4
IN06	H6
IN07	E3
IN08	E3
IN09	F4
IN10	C7
IN11	B7
IN12	E4
IN13	E3
IN14	E4
IN15	E4
IN16	D2
IN17	D3
IN20	D4
IN21	D4
IN22	D8

SSB: RS232 Interface


B12B
RS232 INTERFACE
B12B
RESERVED
PCI
1N01-D
1N01-A
1N01-B
1N01-C
PCI-CLK-SLOT
PCI-CBE3
PCI-AD0
PCI-AD1
PCI-AD2
PCI-AD3
PCI-AD4
PCI-AD5
PCI-AD6
PCI-AD7
PCI-CBE0
PCI-AD8
PCI-AD9
PCI-AD10
PCI-AD11
PCI-AD12
PCI-STOP
PCI-TRDY
PCI-FRAME
PCI-AD16
PCI-AD18
PCI-AD20
PCI-AD22
PCI-AD24
PCI-AD26
PCI-AD28
PCI-AD30
PCI-INTA
PCI-REQ
PCI-AD13
PCI-AD14
PCI-AD15
PCI-CBE1
PCI-PAR
PCI-SERR
PCI-PERR
PCI-DEVSEL
PCI-IRDY
PCI-CBE2
PCI-AD17
PCI-AD19
PCI-AD21
PCI-AD23
PCI-AD25
PCI-AD27
PCI-AD29
PCI-AD31
PCI-GNT
SOLC-135-02-S-Q-A
RS232 INTERFACE
+5V2
3N2B 1K0
3N2C 150R
3N2D 150R
IN18
IN19
7N02 BC847B
2N18 10n
TS431AILT 7N01
1V3
IN1A
3N2G 1K0
+3V3-UART
3N2E 1K0
3N2F 1K5
2N19 10u 10V
IN1N
9N1A
+3V3-UART
FN0F
RES 7N03 ST3232C
RS232
VCC
2N16 100n
2N17 100n
IN1B
IN1C
IN1D
IN1E
C1+
C1-
C2+
C2-
V-
V+
IN1F
2N15 100n
2N14 100n
IN1G
T1 IN
T2
R1 IN
R2
OUT T1 T2
OUT R1 R2
GND
EJTAG
1N04
FN05
FN08
FN07
FN0A
FN0B
FN0C
FN09
FN04
FN03
FN06
FN02
5-147279-3
FOR FACTORY USE ONLY
JTAG-TRST
EJTAG-DETECT
EJTAG-TDI
EJTAG-TDO
EJTAG-TMS
EJTAG-TCK
RESET-SYSTEM
9N18 RES
9N20 RES
+3V3
GLINK-TXD
TXD
RXD
GLINK-RXD
9N1B
9N1C
IN1K
IN1H
IN1M
IN1L
IN1I
IN1J
3N2H 100R
3N2I 100R
3N29 100R
3N2A 100R
FN0G
FN0H
FN0D
FN0E
1N02
1N03 RES
B3B-PH-SM4-TBT(LF)
9N16
9N17
IN1P
9N19
3104 313 6080.4
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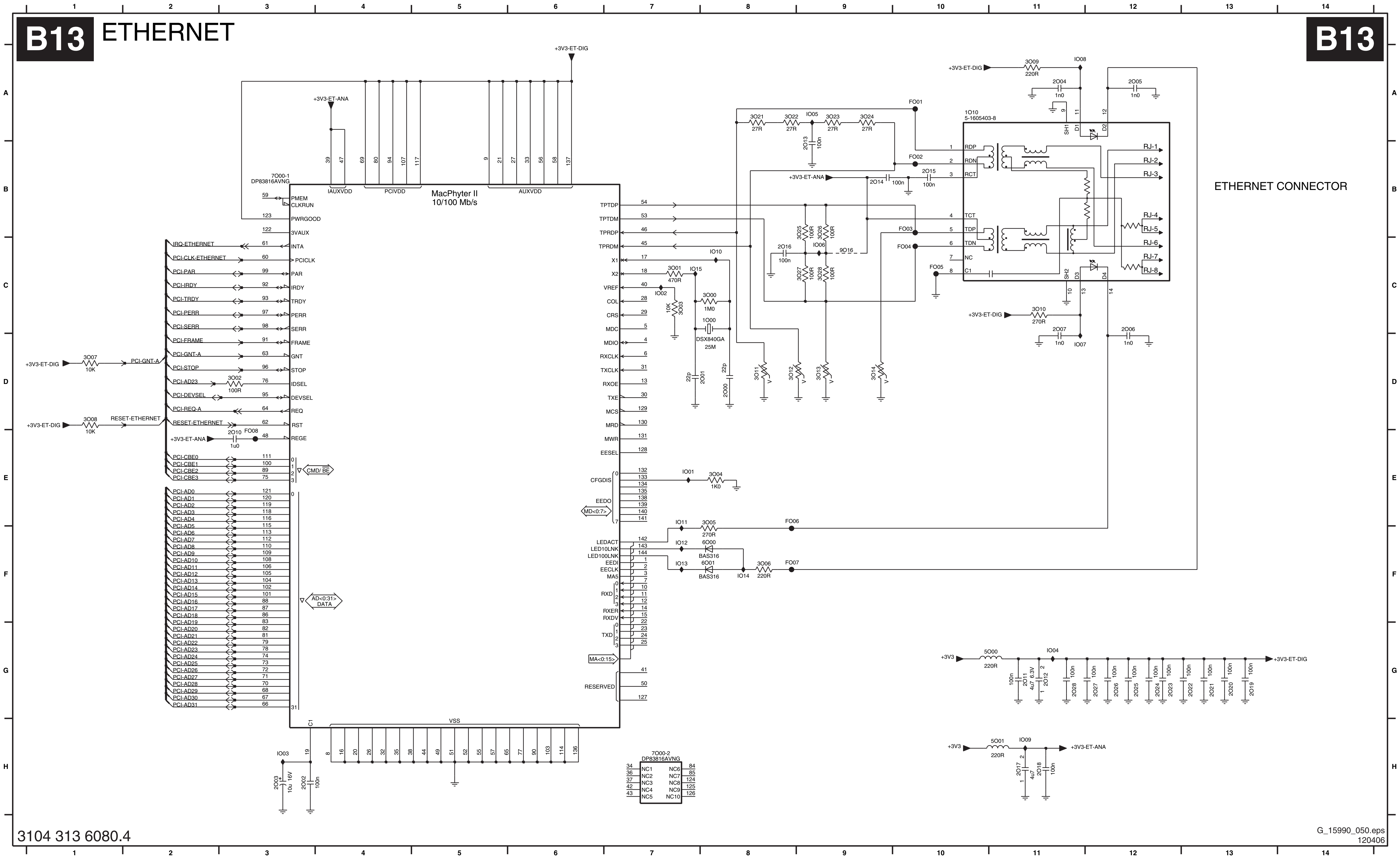
1N01-A	A3
1N01-B	A4
1N01-C	A4
1N01-D	A1
1N02	E9
1N03	E9
1N04	E3
2N14	E8
2N15	D8
2N16	D6
2N17	E6
2N18	B7
2N19	C7
3N29	E8
3N2A	F8
3N2B	B6
3N2C	B7
3N2D	B8
3N2E	C7
3N2F	C7
3N2G	C7
3N2H	E8
3N2I	E9
7N01	C6
7N02	B8
7N03	D7
9N16	F7
9N17	F7
9N18	F3
9N19	F7
9N1A	D7
9N1B	E6
9N1C	F6
9N20	F3
FN02	F3
FN03	F3
FN04	F3
FN05	E3
FN06	F3
FN07	E3
FN08	E3
FN09	F3
FN0A	E3
FN0B	E3
FN0C	F3
FN0D	E9
FN0E	F9
FN0F	D7
FN0G	E9
FN0H	E9
IN18	B8
IN19	B7
IN1A	C7
IN1B	D6
IN1C	D6
IN1D	E6
IN1E	E6
IN1F	D7
IN1G	E7
IN1H	F6
IN1I	E8
IN1J	F8
IN1K	E6
IN1L	E8
IN1M	E8
IN1N	D6
IN1P	F6

SSB: Ethernet

1O00 C8
1O10 A10
2O00 D8
2O01 D8
2O02 H3
2O03 H3
2O04 A11
2O05 A12
2O06 C12
2O07 C11
2O10 E3
2O11 G11
2O12 G11
2O13 B9
2O14 B9
2O15 B10
2O16 C8
2O17 H11
2O18 H11
2O19 G13
2O20 G13
2O21 G13
2O22 G13
2O23 G12
2O24 G12
2O25 G12
2O26 G12
2O27 G12
2O28 G11
3O00 C8
3O01 C7
3O02 D3
3O03 C7
3O04 E8
3O05 E8
3O06 F8
3O07 D1
3O08 D1
3O09 A11
3O10 C11
3O11 D8
3O12 D8
3O13 D9
3O14 D9
3O21 A8
3O22 A8
3O23 A9
3O24 A9
3O25 B9
3O26 B9
3O27 C9
3O28 C9
5O00 G11
5O01 H11
6O00 F8
6O01 F8
7O00-1 B3
7O00-2 H7
9O16 C9
FO01 A10
FO02 B10
FO03 B10
FO04 C10
FO05 C10
FO06 E8
FO07 F8
FO08 E3
IO01 E7
IO02 C7
IO03 H3
IO04 G11
IO05 A9
IO06 C9
IO07 D11
IO08 A11
IO09 H11
IO10 C8
IO11 E7
IO12 F7
IO13 F7
IO14 F8
IO15 C7


B13
ETHERNET
B13
+3V3-ET-DIG
+3V3-ET-ANA
7O00-1
DP83816AVNG
MacPhyter II
10/100 Mb/s
IAUXVDD
PCIVDD
AUXVDD
PMEM
CLKRUN
PWRGOOD
3VAUX
INTA
PCICLK
PAR
IRDY
TRDY
PERR
SERR
FRAME
GNT
STOP
IDSEL
DEVSEL
REQ
RST
REGE
IRQ-ETHERNET
PCI-CLK-ETHERNET
PCI-PAR
PCI-IRDY
PCI-TRDY
PCI-PERR
PCI-SERR
PCI-FRAME
PCI-GNT-A
PCI-STOP
PCI-AD23
PCI-DEVSEL
PCI-REQ-A
RESET-ETHERNET
PCI-CBE0
PCI-CBE1
PCI-CBE2
PCI-CBE3
CMD/ BE
PCI-AD0 … PCI-AD31
AD<0:31>
DATA
3O07
10K
3O08
10K
3O02
100R
2O10
1u0
FO08
TPTDP
TPTDM
TPRDP
TPRDM
X1
X2
VREF
COL
CRS
MDC
MDIO
RXCLK
TXCLK
RXOE
TXE
MCS
MRD
MWR
EESEL
CFGDIS
EEDO
MD<0:7>
LEDACT
LED10LNK
LED100LNK
EEDI
EECLK
MA5
RXD
RXER
RXDV
TXD
MA<0:15>
RESERVED
VSS
C1
3O01
470R
IO15
IO02
10K
3O03
3O00
1M0
1O00
DSX840GA
25M
22p
2O01
2O00
IO10
IO01
3O04
1K0
IO11
3O05
270R
FO06
IO12
6O00
BAS316
IO13
6O01
IO14
3O06
220R
FO07
IO03
2O03
10u 16V
2O02
100n
7O00-2
DP83816AVNG
NC1
NC2
NC3
NC4
NC5
NC6
NC7
NC8
NC9
NC10
FO01
3O21
27R
3O22
27R
IO05
3O23
27R
3O24
27R
2O13
100n
FO02
2O14
100n
2O15
100n
3O25
100R
3O26
100R
3O27
100R
3O28
100R
IO06
9O16
2O16
100n
FO03
FO04
FO05
3O11
3O12
3O13
3O14
3O09
220R
IO08
2O04
1n0
2O05
1n0
1O10
5-1605403-8
RDP
RDN
RCT
TCT
TDP
TDN
NC
C1
SH1
SH2
D1
D2
D3
D4
RJ-1
RJ-2
RJ-3
RJ-4
RJ-5
RJ-6
RJ-7
RJ-8
ETHERNET CONNECTOR
3O10
270R
2O07
1n0
IO07
2O06
1n0
+3V3
5O00
220R
IO04
2O11
4u7 6.3V
2O12
2O28
2O27
2O26
2O25
2O24
2O23
2O22
2O21
2O20
2O19
100n
5O01
220R
IO09
2O17
4u7
2O18
100n
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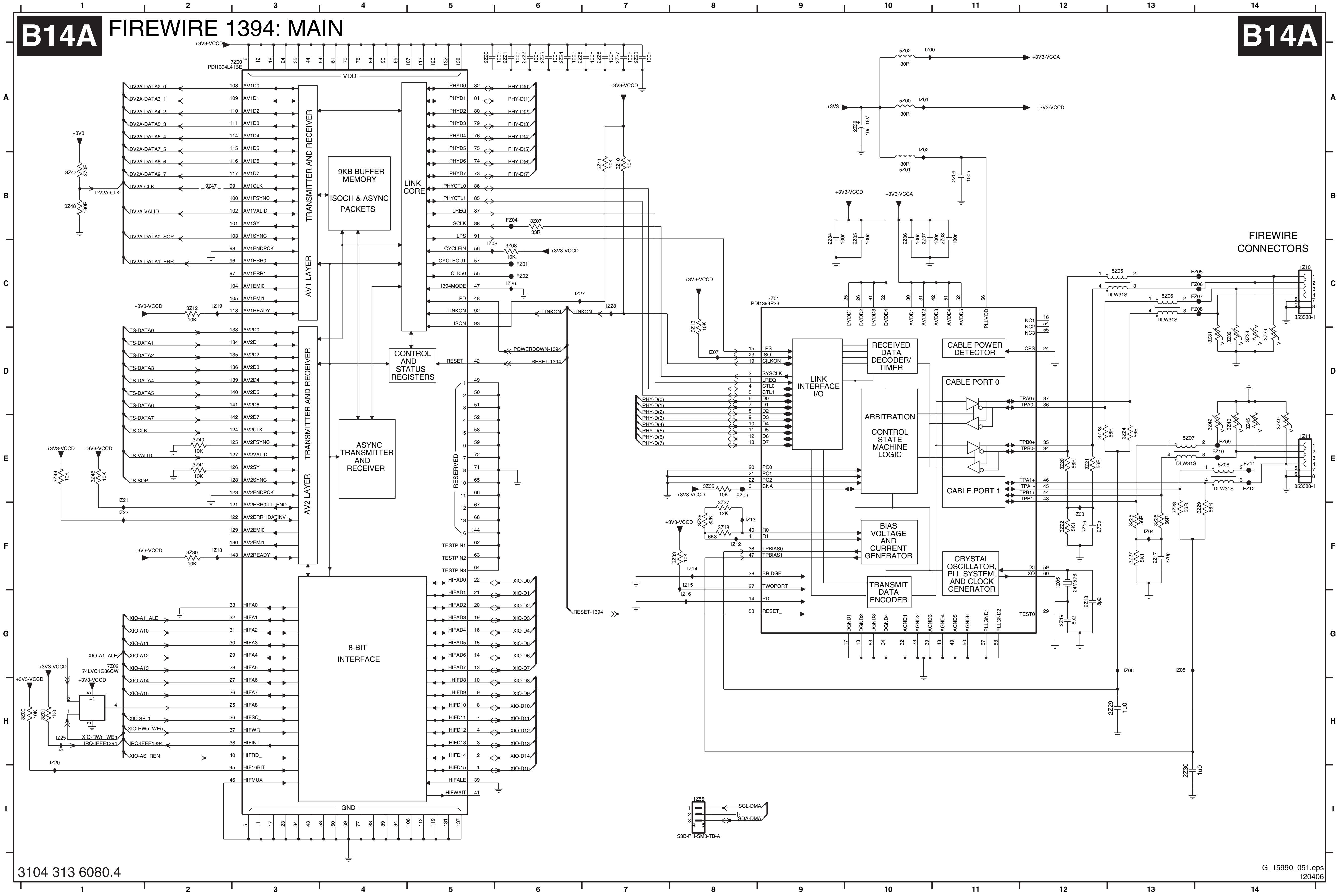
SSB: Firewire 1394: Main


B14A
FIREWIRE 1394: MAIN
B14A
1 2 3 4 5 6 7 8 9 10 11 12 13 14
A B C D E F G H I
+3V3-VCCD
7Z00
PDI1394L41BE
VDD
TRANSMITTER AND RECEIVER
AV1 LAYER
9KB BUFFER MEMORY
ISOCH & ASYNC PACKETS
LINK CORE
TRANSMITTER AND RECEIVER
AV2 LAYER
CONTROL AND STATUS REGISTERS
ASYNC TRANSMITTER AND RECEIVER
8-BIT INTERFACE
RESERVED
GND
DV2A-DATA2_0
DV2A-DATA3_1
DV2A-DATA4_2
DV2A-DATA5_3
DV2A-DATA6_4
DV2A-DATA7_5
DV2A-DATA8_6
DV2A-DATA9_7
DV2A-CLK
DV2A-VALID
DV2A-DATA0_SOP
DV2A-DATA1_ERR
TS-DATA0
TS-DATA1
TS-DATA2
TS-DATA3
TS-DATA4
TS-DATA5
TS-DATA6
TS-DATA7
TS-CLK
TS-VALID
TS-SOP
XIO-A1_ALE
XIO-A10
XIO-A11
XIO-A12
XIO-A13
XIO-A14
XIO-A15
XIO-SEL1
XIO-RWn_WEn
IRQ-IEEE1394
XIO-AS_REN
7Z02
74LVC1G86GW
PHY-D(0)
PHY-D(1)
PHY-D(2)
PHY-D(3)
PHY-D(4)
PHY-D(5)
PHY-D(6)
PHY-D(7)
POWERDOWN-1394
RESET-1394
LINKON
XIO-D0
XIO-D1
XIO-D2
XIO-D3
XIO-D4
XIO-D5
XIO-D6
XIO-D7
XIO-D8
XIO-D9
XIO-D10
XIO-D11
XIO-D12
XIO-D13
XIO-D14
XIO-D15
+3V3-VCCA
+3V3
7Z01
PDI1394P23
LINK INTERFACE I/O
RECEIVED DATA DECODER/ TIMER
CABLE POWER DETECTOR
CABLE PORT 0
ARBITRATION
CONTROL STATE MACHINE LOGIC
CABLE PORT 1
BIAS VOLTAGE AND CURRENT GENERATOR
CRYSTAL OSCILLATOR, PLL SYSTEM, AND CLOCK GENERATOR
TRANSMIT DATA ENCODER
FIREWIRE CONNECTORS
1Z10
1Z11
353388-1
DLW31S
1Z55
S3B-PH-SM3-TB-A
SCL-DMA
SDA-DMA
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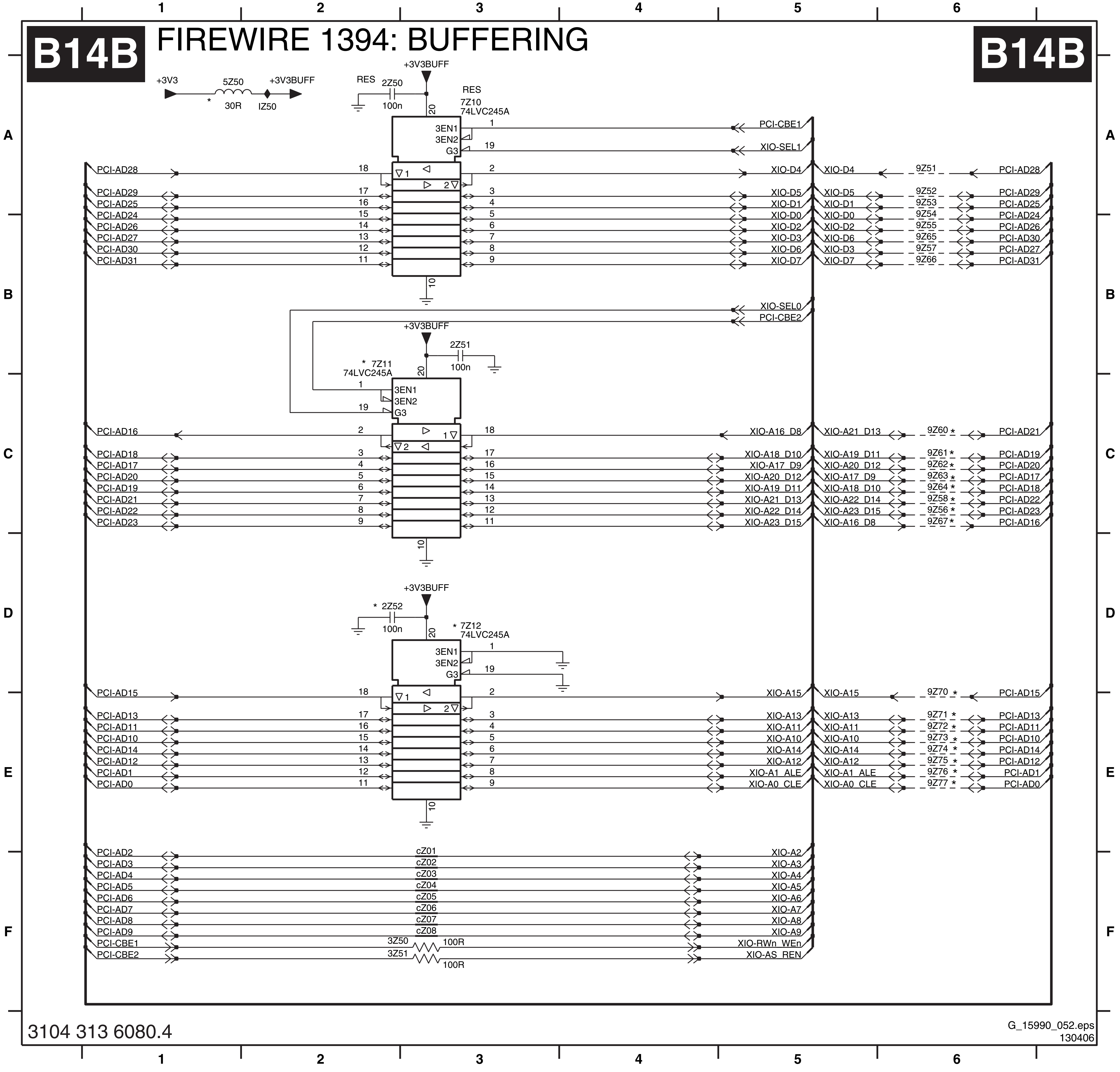
1Z05	F12
1Z10	C14
1Z11	E14
1Z55	I8
2Z04	B9
2Z05	B10
2Z06	B10
2Z07	B10
2Z08	B11
2Z09	B11
2Z16	F12
2Z17	F13
2Z18	G12
2Z19	G12
2Z20	A5
2Z21	A6
2Z22	A6
2Z23	A6
2Z24	A6
2Z25	A6
2Z26	A7
2Z27	A7
2Z28	A7
2Z29	H13
2Z30	I13
2Z38	A10
3Z00	H1
3Z01	H1
3Z07	B6
3Z08	C6
3Z10	B7
3Z11	B7
3Z12	C2
3Z13	C8
3Z18	F8
3Z20	E12
3Z21	E12
3Z22	F12
3Z23	E12
3Z24	E13
3Z25	F13
3Z26	F13
3Z27	F13
3Z28	F13
3Z29	F14
3Z30	F2
3Z31	D14
3Z32	D14
3Z33	F8
3Z34	D14
3Z35	E8
3Z37	F8
3Z38	F8
3Z39	D14
3Z40	E2
3Z41	E2
3Z42	E14
3Z43	E14
3Z44	E1
3Z45	E14
3Z46	E1
3Z47	B1
3Z48	B1
3Z49	E14
5Z00	A10
5Z01	B10
5Z02	A10
5Z05	C13
5Z06	C13
5Z07	E13
5Z08	E14
7Z00	A3
7Z01	C9
7Z02	G1
9Z47	B2
FZ01	C6
FZ02	C6
FZ03	E8
FZ04	B6
FZ05	C14
FZ06	C14
FZ07	C14
FZ08	C14
FZ09	E14
FZ10	E14
FZ11	E14
FZ12	E14
IZ00	A10
IZ01	A10
IZ02	A10
IZ03	F12
IZ04	F13
IZ05	G13
IZ06	G13
IZ07	D8
IZ08	C5
IZ12	F8
IZ13	F8
IZ14	F8
IZ15	F8
IZ16	G8
IZ18	F2
IZ19	C2
IZ20	H1
IZ21	E1
IZ22	F1
IZ25	H1
IZ26	C6
IZ27	C6
IZ28	C7

SSB: Firewire 1394: Buffering


B14B
FIREWIRE 1394: BUFFERING
B14B
+3V3
5Z50
30R
IZ50
+3V3BUFF
RES
2Z50
100n
7Z10
74LVC245A
3EN1
3EN2
G3
PCI-CBE1
XIO-SEL1
PCI-AD28
PCI-AD29
PCI-AD25
PCI-AD24
PCI-AD26
PCI-AD27
PCI-AD30
PCI-AD31
XIO-D4
XIO-D5
XIO-D1
XIO-D0
XIO-D2
XIO-D3
XIO-D6
XIO-D7
9Z51
9Z52
9Z53
9Z54
9Z55
9Z65
9Z57
9Z66
XIO-SEL0
PCI-CBE2
2Z51
7Z11
74LVC245A
PCI-AD16
PCI-AD18
PCI-AD17
PCI-AD20
PCI-AD19
PCI-AD21
PCI-AD22
PCI-AD23
XIO-A16_D8
XIO-A18_D10
XIO-A17_D9
XIO-A20_D12
XIO-A19_D11
XIO-A21_D13
XIO-A22_D14
XIO-A23_D15
9Z60
9Z61
9Z62
9Z63
9Z64
9Z58
9Z56
9Z67
2Z52
7Z12
74LVC245A
PCI-AD15
PCI-AD13
PCI-AD11
PCI-AD10
PCI-AD14
PCI-AD12
PCI-AD1
PCI-AD0
XIO-A15
XIO-A13
XIO-A11
XIO-A10
XIO-A14
XIO-A12
XIO-A1_ALE
XIO-A0_CLE
9Z70
9Z71
9Z72
9Z73
9Z74
9Z75
9Z76
9Z77
PCI-AD2
PCI-AD3
PCI-AD4
PCI-AD5
PCI-AD6
PCI-AD7
PCI-AD8
PCI-AD9
PCI-CBE1
PCI-CBE2
cZ01
cZ02
cZ03
cZ04
cZ05
cZ06
cZ07
cZ08
3Z50
3Z51
100R
XIO-A2
XIO-A3
XIO-A4
XIO-A5
XIO-A6
XIO-A7
XIO-A8
XIO-A9
XIO-RWn_WEn
XIO-AS_REN
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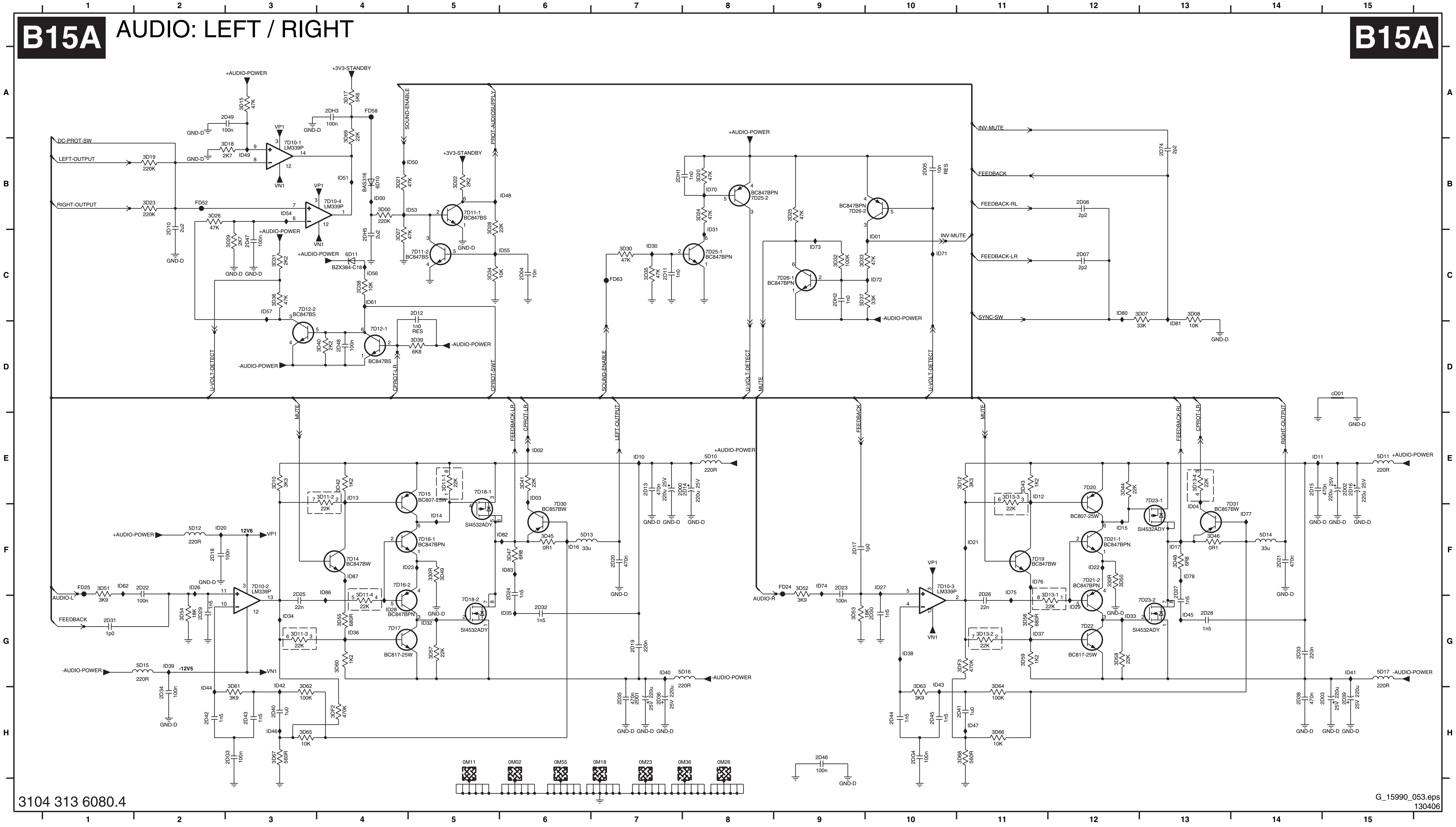
2Z50	A2
2Z51	B3
2Z52	D2
3Z50	F2
3Z51	F2
5Z50	A1
7Z10	A3
7Z11	B2
7Z12	D3
9Z51	A6
9Z52	A6
9Z53	A6
9Z54	B6
9Z55	B6
9Z56	C6
9Z57	B6
9Z58	C6
9Z60	C6
9Z61	C6
9Z62	C6
9Z63	C6
9Z64	C6
9Z65	B6
9Z66	B6
9Z67	C6
9Z70	E6
9Z71	E6
9Z72	E6
9Z73	E6
9Z74	E6
9Z75	E6
9Z76	E6
9Z77	E6
IZ50	A2
cZ01	F3
cZ02	F3
cZ03	F3
cZ04	F3
cZ05	F3
cZ06	F3
cZ07	F3
cZ08	F3

SSB: Audio: Left / Right

2D00 E7
2D01 H7
2D02 E15
2D03 H14
2D04 C6
2D05 B10
2D06 B12
2D07 C12
2D10 B2
2D11 C7
2D12 C5
2D13 E7
2D14 E8
2D15 E14
2D16 E15
2D17 F9
2D18 F2
2D19 G7
2D20 F7
2D21 F14
2D22 F2
2D23 F9
2D24 F6
2D25 G3
2D26 G11
2D27 F13
2D28 G13
2D29 G2
2D30 G10
2D31 G1
2D32 G6
2D33 G14
2D34 H2
2D35 H7
2D36 H7
2D38 H14
2D39 H15
2D40 H3
2D41 H11
2D42 H2
2D43 H3
2D44 H10
2D45 H10
2D46 H9
2D47 C3
2D48 D4
2D49 A3
2D74 B13
2DG3 H3
2DG4 H10
2DH1 B7
2DH2 C9
2DH3 A4
2DH5 C4
3D00 B4
3D07 C13
3D08 C13
3D10 E3
3D11-1 E5
3D11-2 E4
3D11-3 G3
3D11-4 G4
3D12 E11
3D13-1 G12
3D13-2 G11
3D13-3 E11
3D13-4 E13
3D15 A3
3D17 A4
3D18 B3
3D19 B2
3D20 B8
3D21 B4
3D22 B5
3D23 B2
3D24 B8
3D25 B9
3D26 B2
3D27 C4
3D28 B5
3D29 C3
3D30 C7
3D31 C3
3D32 C9
3D33 C9
3D34 C5
3D35 C7
3D36 C3
3D37 C9
3D38 C4
3D39 D5
3D40 D4
3D41 E6
3D42 E4
3D43 E11
3D44 E12
3D45 F6
3D46 F13
3D47 F6
3D48 F13
3D49 F5
3D50 F12
3D51 F1
3D52 F9
3D53 G9
3D54 G2
3D55 G4
3D56 G11
3D57 G5
3D58 G12
3D59 G11
3D60 G4
3D61 H3
3D62 H3
3D63 H10
3D64 H11
3D65 H3
3D66 H11
3D67 H3
3D68 H11
3D69 A4
3DF2 H4
3DF3 G11
5D10 E8
5D11 E15
5D12 F2
5D13 F6
5D14 F14
5D15 G2
5D16 G8
5D17 G15
6D10 B4
6D11 C4
7D10-1 B3
7D10-2 F3
7D10-3 F10
7D10-4 B4
7D11-1 B5
7D11-2 C5
7D12-1 D4
7D12-2 C3
7D14 F4
7D15 E5
7D16-1 F5
7D16-2 F4
7D17 G4
7D18-1 E5
7D18-2 G5
7D19 F11
7D20 E12
7D21-1 F12
7D21-2 F12
7D22 G12
7D23-1 E13
7D23-2 G12
7D25-1 C8
7D25-2 B8
7D26-1 C9
7D26-2 B10
7D30 F6
7D31 F14
FD24 F9
FD25 F1
FD52 B2
FD58 A4
FD63 C7
ID00 B4
ID01 C10
ID02 E6
ID03 E6
ID04 F13
ID10 E7
ID11 E14
ID12 E11
ID13 E4
ID14 F5
ID15 F12
ID16 F6
ID17 F13
ID20 F2
ID21 F11
ID22 F12
ID23 F5
ID26 F2
ID27 F10
ID28 G4
ID29 G12
ID30 C7
ID31 B8
ID32 G5
ID33 G12
ID34 G3
ID35 G6
ID36 G4
ID37 G11
ID38 G10
ID39 G2
ID40 G7
ID41 G15
ID42 G3
ID43 G10
ID44 H2
ID45 G13
ID46 H3
ID47 H11
ID48 B6
ID49 B3
ID50 B5
ID51 B4
ID53 B5
ID54 B3
ID55 C6
ID56 C4
ID57 C3
ID61 C4
ID62 F1
ID70 B8
ID71 C10
ID72 C10
ID73 C9
ID74 F9
ID75 F11
ID76 F11
ID77 F14
ID78 F13
ID80 C12
ID81 D13
ID82 F6
ID83 F6
ID86 F4
ID87 F4
cD01 D15

B15A AUDIO: LEFT / RIGHT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12
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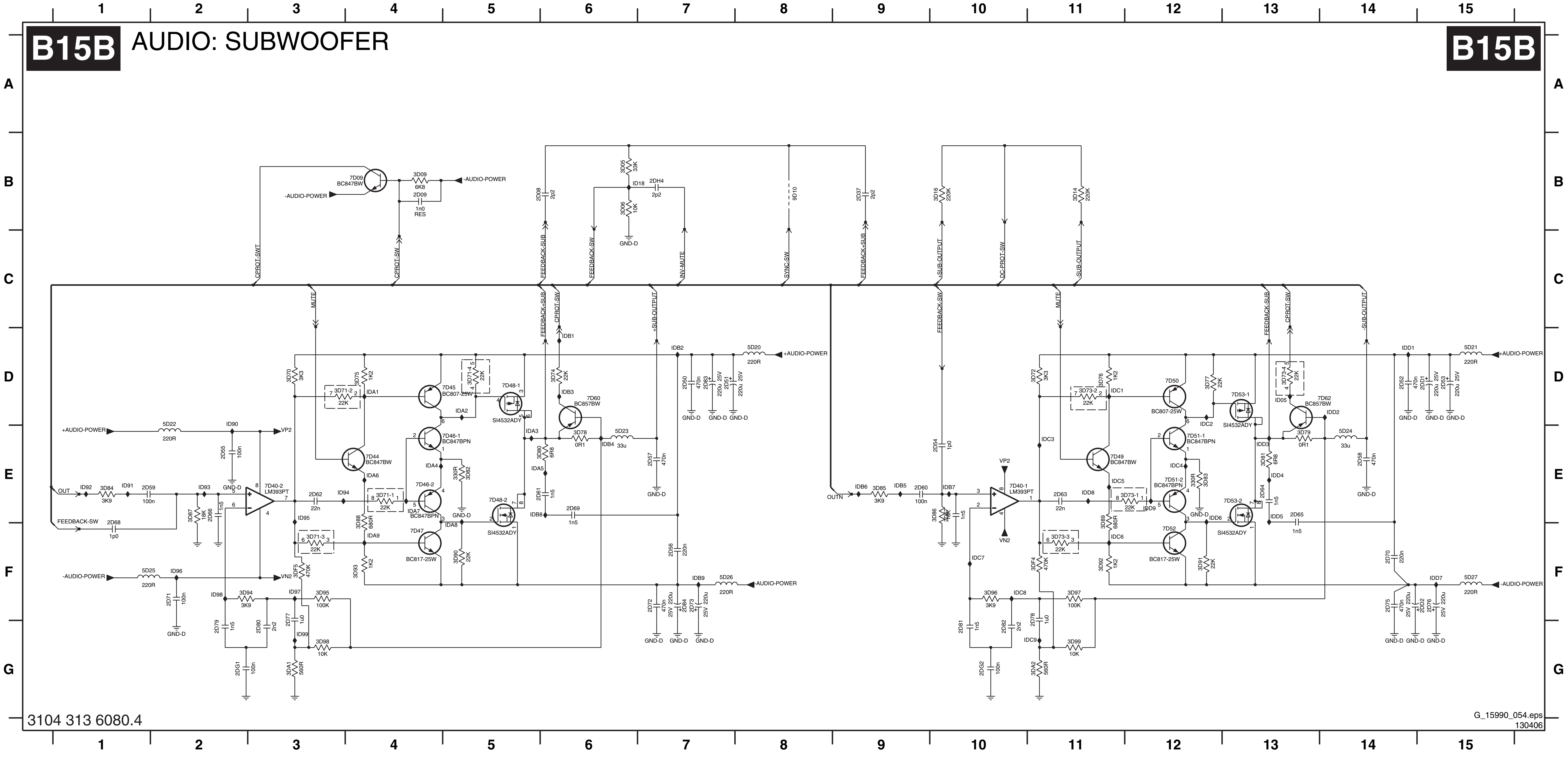
14
15
A
B
C
D
E
F
G
H
+AUDIO-POWER
+3V3-STANDBY
DC-PROT-SW
LEFT-OUTPUT
RIGHT-OUTPUT
SOUND-ENABLE
PROT-AUDIOSUPPLY
7D10-1 LM339P
7D10-4 LM339P
BAS316
BZX384-C18
7D11-1 BC847BS
7D11-2 BC847BS
7D12-1 BC847BS
7D12-2 BC847BS
-AUDIO-POWER
U-VOLT-DETECT
CPROT-LR
CPROT-SWT
7D25-1 BC847BPN
7D25-2 BC847BPN
7D26-1 BC847BPN
7D26-2 BC847BPN
INV-MUTE
FEEDBACK
FEEDBACK-RL
FEEDBACK-LR
SYNC-SW
MUTE
GND-D
cD01
FEEDBACK-LR
LEFT-OUTPUT
RIGHT-OUTPUT
AUDIO-L
AUDIO-R
7D10-2 LM339P
7D10-3 LM339P
12V6
-12V5
VP1
VN1
7D14 BC847BW
7D15 BC807-25W
7D16-1 BC847BPN
7D16-2 BC847BPN
7D17 BC817-25W
7D18-1 SI4532ADY
7D18-2 SI4532ADY
7D30 BC857BW
7D19 BC847BW
7D20 BC807-25W
7D21-1 BC847BPN
7D21-2 BC847BPN
7D22 BC817-25W
7D23-1 SI4532ADY
7D23-2 SI4532ADY
7D31 BC857BW
0M11
0M02
0M55
0M18
0M23
0M36
0M26

3104 313 6080.4

G_15990_053.eps
130406

SSB: Audio: Subwoofer

2D08	B6
2D09	B4
2D37	B9
2D50	D7
2D51	D7
2D52	D14
2D53	D15
2D54	E10
2D55	E2
2D56	F7
2D57	E7
2D58	E14
2D59	E1
2D60	E9
2D61	E6
2D62	E3
2D63	E11
2D64	E13
2D65	E13
2D66	E2
2D67	E10
2D68	F1
2D69	E6
2D70	F14
2D71	F2
2D72	F7
2D73	F7
2D75	F14
2D76	F15
2D77	F3
2D78	F11
2D79	G2
2D80	G3
2D81	G10
2D82	G10
2D83	D7
2D84	F7
2DD1	D15
2DD2	F15
2DG1	G2
2DG2	G10
2DH4	B7
3D05	B6
3D06	B6
3D09	B4
3D14	B11
3D16	B10
3D70	D3
3D71-1	E4
3D71-2	D3
3D71-3	F3
3D71-4	D5
3D72	D11
3D73-1	E12
3D73-2	D11
3D73-3	F11
3D73-4	D13
3D74	D6
3D75	D4
3D76	D11
3D77	D12
3D78	E6
3D79	E13
3D80	E6
3D81	E13
3D82	E5
3D83	E12
3D84	E1
3D85	E9
3D86	E10
3D87	E2
3D88	E4
3D89	E11
3D90	F5
3D91	F12
3D92	F11
3D93	F4
3D94	F2
3D95	F3
3D96	F10
3D97	F11
3D98	G3
3D99	G11
3DA1	G3
3DA2	G11
3DF4	F11
3DF5	F3
5D20	D8
5D21	D15
5D22	E2
5D23	E6
5D24	E14
5D25	F1
5D26	F7
5D27	F15
7D09	B4
7D40-1	E10
7D40-2	E3
7D44	E4
7D45	D4
7D46-1	E4
7D46-2	E4
7D47	F4
7D48-1	D5
7D48-2	E5
7D49	E11
7D50	D12
7D51-1	E12
7D51-2	E12
7D52	F12
7D53-1	D13
7D53-2	E13
7D60	D6
7D62	D14
9D10	B8
ID05	D13
ID18	B7
ID90	D2
ID91	E1
ID92	E1
ID93	E2
ID94	E3
ID95	E3
ID96	F2
ID97	F3
ID98	F2
ID99	G3
IDA1	D4
IDA2	D5
IDA3	E5
IDA4	E4
IDA5	E5
IDA6	E4
IDA7	E4
IDA8	F5
IDA9	F4
IDB1	D6
IDB2	D7
IDB3	D6
IDB4	E6
IDB5	E9
IDB6	E9
IDB7	E10
IDB8	E5
IDB9	F7
IDC1	D11
IDC2	D12
IDC3	E11
IDC4	E12
IDC5	E11
IDC6	F11
IDC7	F10
IDC8	F10
IDC9	G11
IDD1	D14
IDD2	D14
IDD3	E13
IDD4	E13
IDD5	E13
IDD6	E12
IDD7	F15
IDD8	E11
IDD9	E12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A
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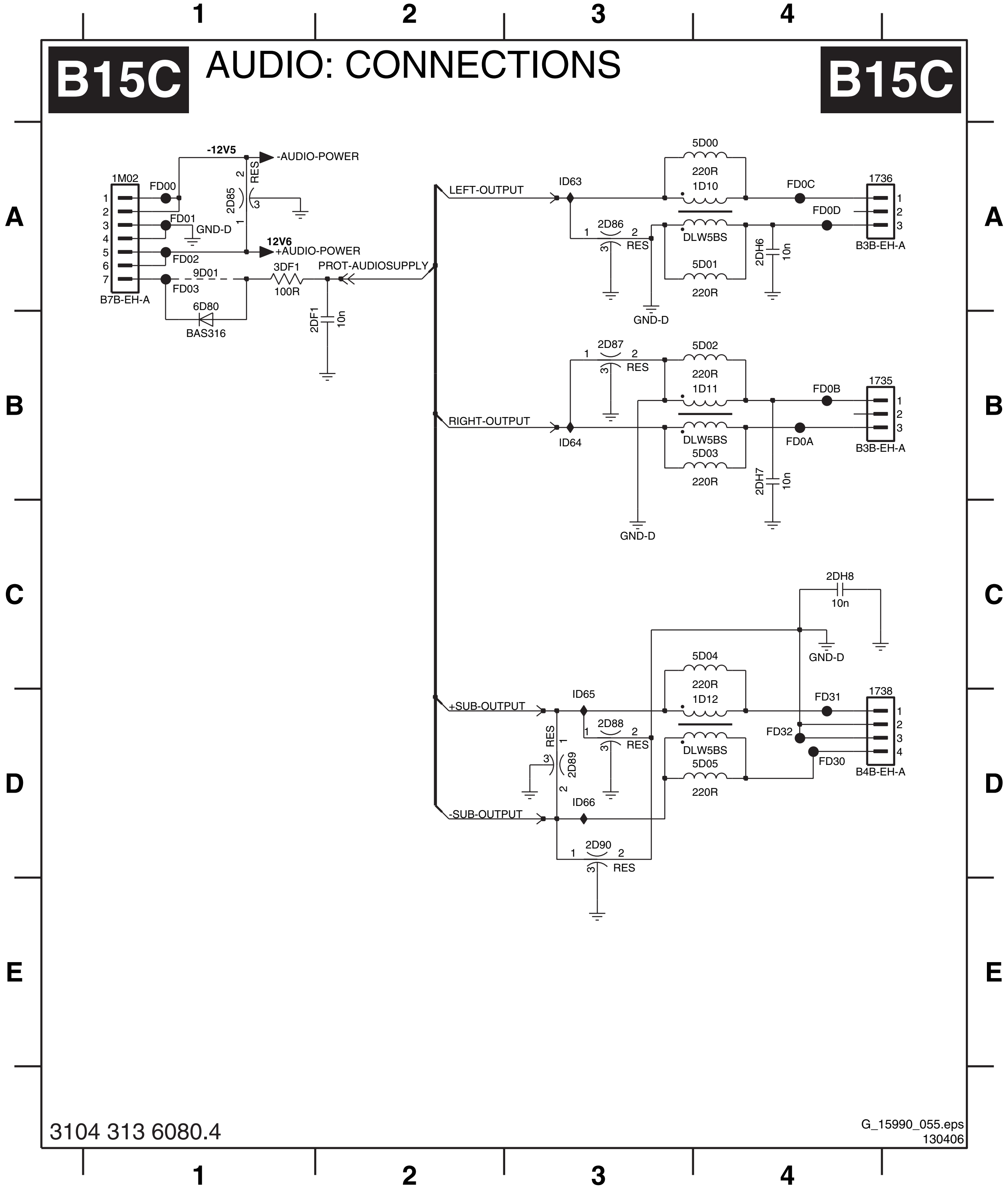
C
D
E
F
G
B15B
AUDIO: SUBWOOFER
B15B
7D09
BC847BW
3D09
6K8
-AUDIO-POWER
-AUDIO-POWER
2D09
1n0
RES
CPROT-SWT
CPROT-SW
MUTE
FEEDBACK-SUB
FEEDBACK-SW
INV-MUTE
SYNC-SW
FEEDBACK-SUB
SUB-OUTPUT
DC-PROT-SW
SUB-OUTPUT
2D08
2p2
3D05
33K
ID18
2DH4
2p2
3D06
10K
GND-D
9D10
2D37
2p2
3D16
220K
3D14
220K
CPROT-SW
IDB1
+SUB-OUTPUT
IDB2
5D20
220R
+AUDIO-POWER
3D70
3K3
3D75
1K2
3D71-2
22K
IDA1
7D45
BC807-25W
3D71-4
22K
7D48-1
SI4532ADY
3D74
22K
IDB3
7D60
BC857BW
IDA2
IDA3
3D78
0R1
IDB4
5D23
33u
2D50
470n
2D83
220u 25V
2D51
220u 25V
GND-D
+AUDIO-POWER
5D22
220R
ID90
VP2
2D55
100n
7D44
BC847BW
7D46-1
BC847BPN
IDA4
330R
3D82
IDA5
3D80
6R8
2D57
470n
OUT
ID92
3D84
3K9
ID91
2D59
100n
ID93
GND-D
7D40-2
LM393PT
2D62
22n
ID94
IDA6
7D46-2
3D71-1
22K
IDA7
BC847BPN
7D48-2
SI4532ADY
2D61
1n5
IDB8
2D69
1n5
FEEDBACK-SW
2D68
1p0
3D87
18K
2D66
1n5
ID95
3D71-3
22K
3D88
680R
IDA8
IDA9
7D47
BC817-25W
3D90
22K
3D93
1K2
2D56
220n
-AUDIO-POWER
5D25
220R
ID96
2D71
100n
GND-D
VN2
3DF5
470K
ID98
3D94
3K9
ID97
3D95
100K
2D79
1n5
2D80
2n2
2D77
1u0
ID99
3D98
10K
2DG1
100n
3DA1
560R
IDB9
5D26
220R
-AUDIO-POWER
2D72
470n
2D84
220u 25V
2D73
220u 25V
3D72
3K3
3D76
1K2
3D73-2
22K
IDC1
7D50
BC807-25W
3D77
22K
7D53-1
SI4532ADY
ID05
3D73-4
22K
7D62
BC857BW
IDD2
IDC2
IDD3
3D79
0R1
5D24
33u
2D52
470n
2D53
220u 25V
2DD1
220u 25V
IDD1
5D21
220R
+AUDIO-POWER
2D54
1p0
IDC3
7D49
BC847BW
7D51-1
BC847BPN
IDC4
330R
3D83
3D81
6R8
IDD4
2D58
470n
VP2
OUTN
IDB6
3D85
3K9
IDB5
2D60
100n
IDB7
7D40-1
LM393PT
2D63
22n
IDD8
IDC5
3D73-1
22K
7D51-2
BC847BPN
IDD9
7D53-2
SI4532ADY
2D64
1n5
IDD5
2D65
1n5
IDD6
3D86
18K
2D67
1n5
VN2
3D89
680R
IDC6
3D73-3
22K
7D52
BC817-25W
3D91
22K
3D92
1K2
IDC7
3DF4
470K
2D70
220n
IDD7
5D27
220R
-AUDIO-POWER
2D75
470n
2DD2
220u 25V
2D76
220u 25V
3D96
3K9
IDC8
3D97
100K
2D81
1n5
2D82
2n2
2D78
1u0
IDC9
3D99
10K
2DG2
100n
3DA2
560R
3104 313 6080.4
G_15990_054.eps
130406

SSB: Audio: Connections

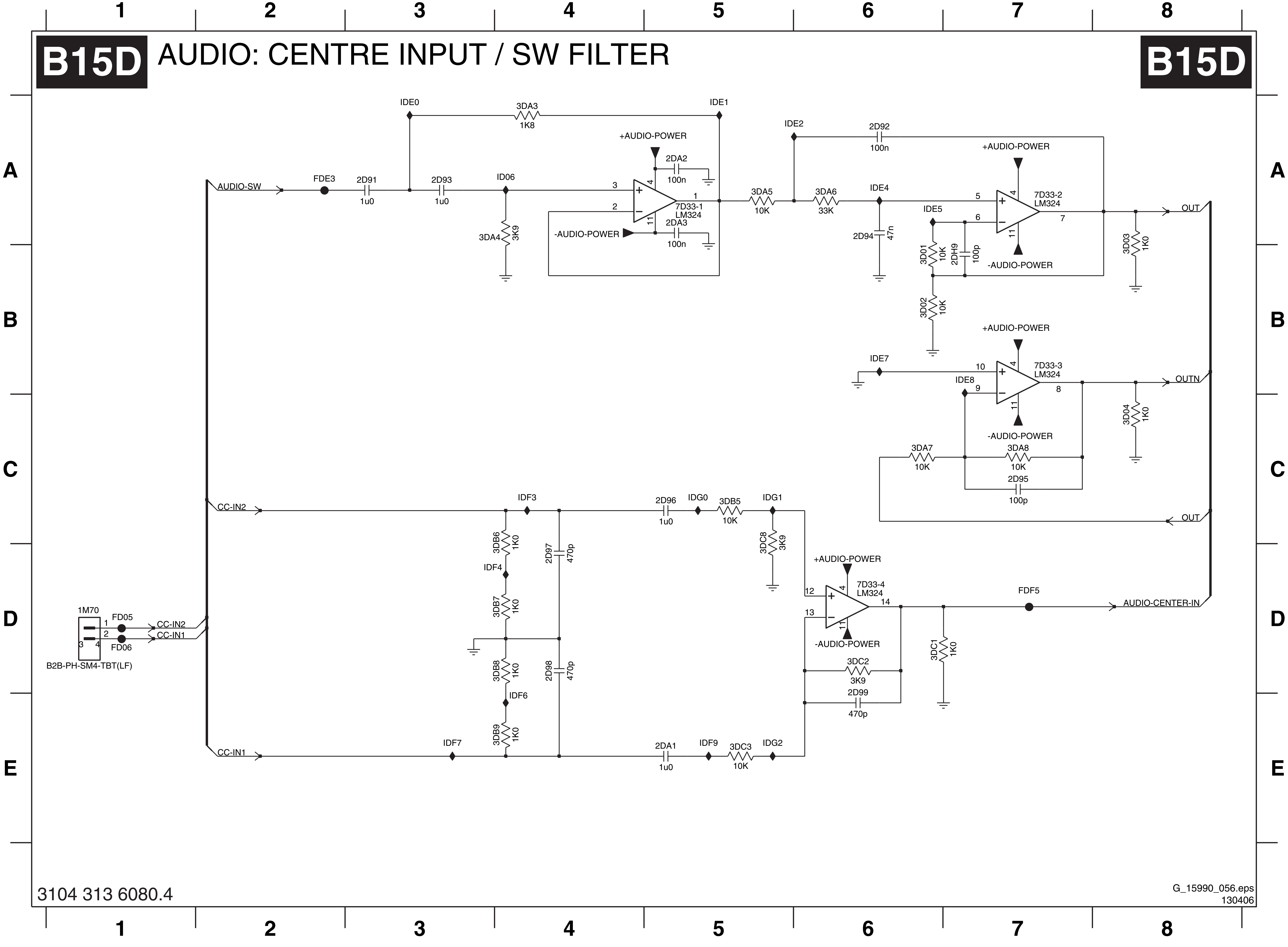

B15C
AUDIO: CONNECTIONS
B15C
1M02
FD00
FD01
GND-D
FD02
FD03
9D01
6D80
BAS316
B7B-EH-A
-12V5
-AUDIO-POWER
2D85
RES
12V6
+AUDIO-POWER
3DF1
100R
PROT-AUDIOSUPPLY
2DF1
10n
LEFT-OUTPUT
ID63
2D86
RES
5D00
220R
1D10
DLW5BS
5D01
220R
GND-D
2DH6
10n
FD0C
FD0D
1736
B3B-EH-A
RIGHT-OUTPUT
ID64
2D87
RES
5D02
220R
1D11
DLW5BS
5D03
220R
GND-D
2DH7
10n
FD0B
FD0A
1735
B3B-EH-A
2DH8
10n
GND-D
+SUB-OUTPUT
ID65
2D88
RES
5D04
220R
1D12
DLW5BS
5D05
220R
FD31
FD32
FD30
1738
B4B-EH-A
2D89
RES
-SUB-OUTPUT
ID66
2D90
RES
3104 313 6080.4
G_15990_055.eps
130406
1 2 3 4
A B C D E

1735	B4
1736	A4
1738	D4
1D10	A4
1D11	B4
1D12	D4
1M02	A1
2D85	A1
2D86	A3
2D87	B3
2D88	D3
2D89	D3
2D90	D3
2DF1	B2
2DH6	A4
2DH7	B4
2DH8	C4
3DF1	A1
5D00	A4
5D01	A4
5D02	B4
5D03	B4
5D04	C4
5D05	D4
6D80	A1
9D01	A1
FD00	A1
FD01	A1
FD02	A1
FD03	A1
FD0A	B4
FD0B	B4
FD0C	A4
FD0D	A4
FD30	D4
FD31	D4
FD32	D4
ID63	A3
ID64	B3
ID65	D3
ID66	D3

Personal Notes:

E_06532_012.eps
131004

SSB: Audio: Centre Input / SW Filter


B15D
AUDIO: CENTRE INPUT / SW FILTER
B15D
1 2 3 4 5 6 7 8
A B C D E
AUDIO-SW
FDE3
2D91
1u0
IDE0
2D93
1u0
3DA3
1K8
IDE1
ID06
3DA4
3K9
+AUDIO-POWER
2DA2
100n
-AUDIO-POWER
2DA3
100n
7D33-1
LM324
IDE2
2D92
100n
3DA5
10K
3DA6
33K
IDE4
2D94
47n
IDE5
3D01
10K
2DH9
100p
3D02
10K
7D33-2
LM324
OUT
3D03
1K0
IDE7
IDE8
7D33-3
LM324
OUTN
3D04
1K0
3DA7
10K
3DA8
10K
2D95
100p
OUT
CC-IN2
IDF3
3DB6
1K0
IDF4
3DB7
1K0
2D97
470p
3DB8
1K0
IDF6
3DB9
1K0
2D98
470p
2D96
1u0
IDG0
3DB5
10K
IDG1
3DC8
3K9
7D33-4
LM324
FDF5
AUDIO-CENTER-IN
3DC1
1K0
3DC2
3K9
2D99
470p
CC-IN1
IDF7
2DA1
1u0
IDF9
3DC3
10K
IDG2
1M70
FD05
FD06
CC-IN2
CC-IN1
B2B-PH-SM4-TBT(LF)
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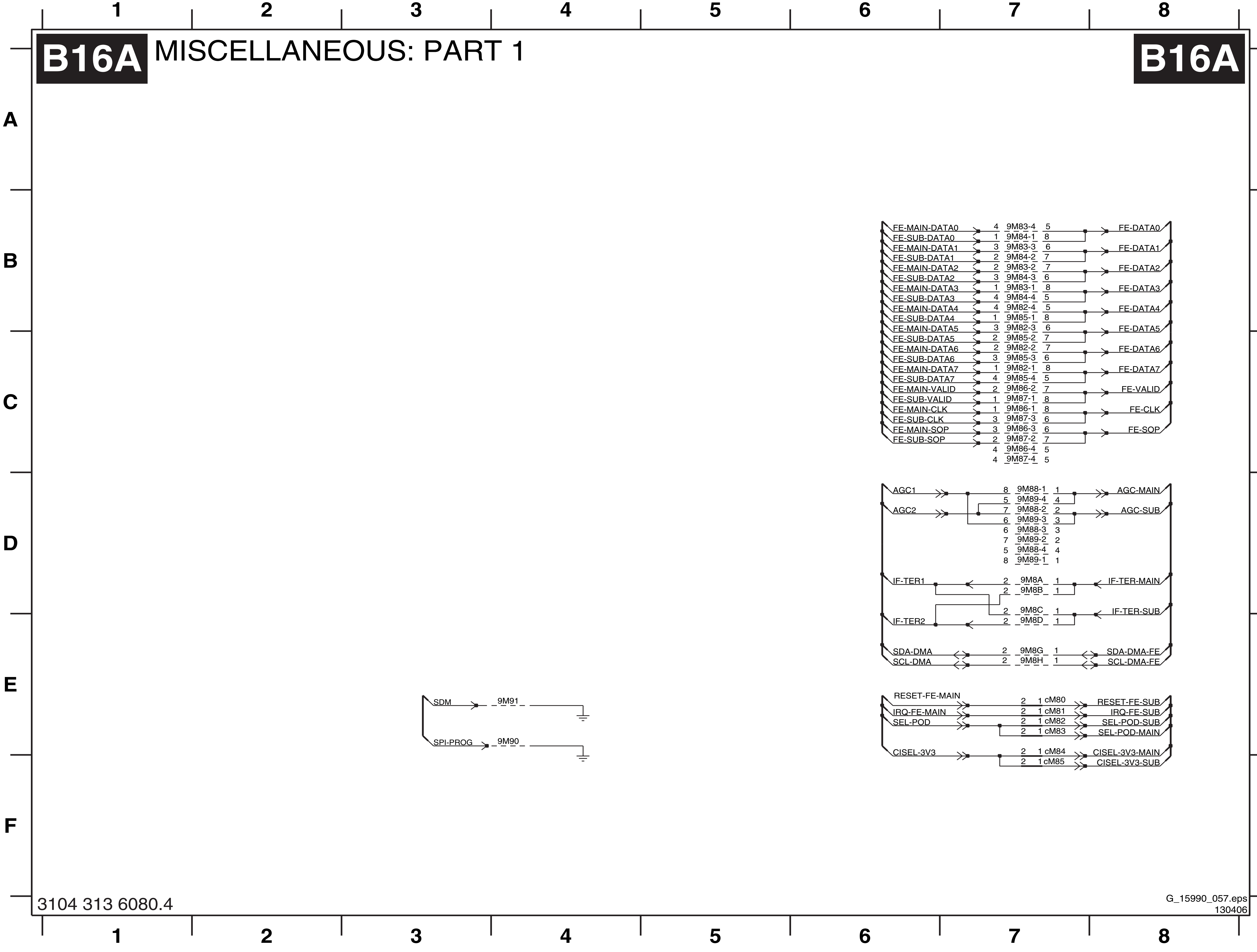
Component	Location
1M70	D1
2D91	A3
2D92	A6
2D93	A3
2D94	A6
2D95	C7
2D96	C5
2D97	D4
2D98	D4
2D99	E6
2DA1	E5
2DA2	A5
2DA3	A5
2DH9	B7
3D01	B6
3D02	B6
3D03	A8
3D04	C8
3DA3	A4
3DA4	A3
3DA5	A5
3DA6	A6
3DA7	C6
3DA8	C7
3DB5	C5
3DB6	C4
3DB7	D4
3DB8	D4
3DB9	E4
3DC1	D6
3DC2	D6
3DC3	E5
3DC8	C5
7D33-1	A5
7D33-2	A7
7D33-3	B7
7D33-4	D6
FD05	D1
FD06	D1
FDE3	A2
FDF5	D7
ID06	A4
IDE0	A3
IDE1	A5
IDE2	A6
IDE4	A6
IDE5	A6
IDE7	B6
IDE8	B7
IDF3	C4
IDF4	D3
IDF6	E4
IDF7	E3
IDF9	E5
IDG0	C5
IDG1	C5
IDG2	E5

SSB: Miscellaneous Part 1


B16A MISCELLANEOUS: PART 1
B16A
1 2 3 4 5 6 7 8
A B C D E F
FE-MAIN-DATA0
FE-SUB-DATA0
FE-MAIN-DATA1
FE-SUB-DATA1
FE-MAIN-DATA2
FE-SUB-DATA2
FE-MAIN-DATA3
FE-SUB-DATA3
FE-MAIN-DATA4
FE-SUB-DATA4
FE-MAIN-DATA5
FE-SUB-DATA5
FE-MAIN-DATA6
FE-SUB-DATA6
FE-MAIN-DATA7
FE-SUB-DATA7
FE-MAIN-VALID
FE-SUB-VALID
FE-MAIN-CLK
FE-SUB-CLK
FE-MAIN-SOP
FE-SUB-SOP
9M83-4
9M84-1
9M83-3
9M84-2
9M83-2
9M84-3
9M83-1
9M84-4
9M82-4
9M85-1
9M82-3
9M85-2
9M82-2
9M85-3
9M82-1
9M85-4
9M86-2
9M87-1
9M86-1
9M87-3
9M86-3
9M87-2
9M86-4
9M87-4
FE-DATA0
FE-DATA1
FE-DATA2
FE-DATA3
FE-DATA4
FE-DATA5
FE-DATA6
FE-DATA7
FE-VALID
FE-CLK
FE-SOP
AGC1
AGC2
9M88-1
9M89-4
9M88-2
9M89-3
9M88-3
9M89-2
9M88-4
9M89-1
AGC-MAIN
AGC-SUB
IF-TER1
IF-TER2
9M8A
9M8B
9M8C
9M8D
IF-TER-MAIN
IF-TER-SUB
SDA-DMA
SCL-DMA
9M8G
9M8H
SDA-DMA-FE
SCL-DMA-FE
SDM
9M91
SPI-PROG
9M90
RESET-FE-MAIN
IRQ-FE-MAIN
SEL-POD
CISEL-3V3
cM80
cM81
cM82
cM83
cM84
cM85
RESET-FE-SUB
IRQ-FE-SUB
SEL-POD-SUB
SEL-POD-MAIN
CISEL-3V3-MAIN
CISEL-3V3-SUB
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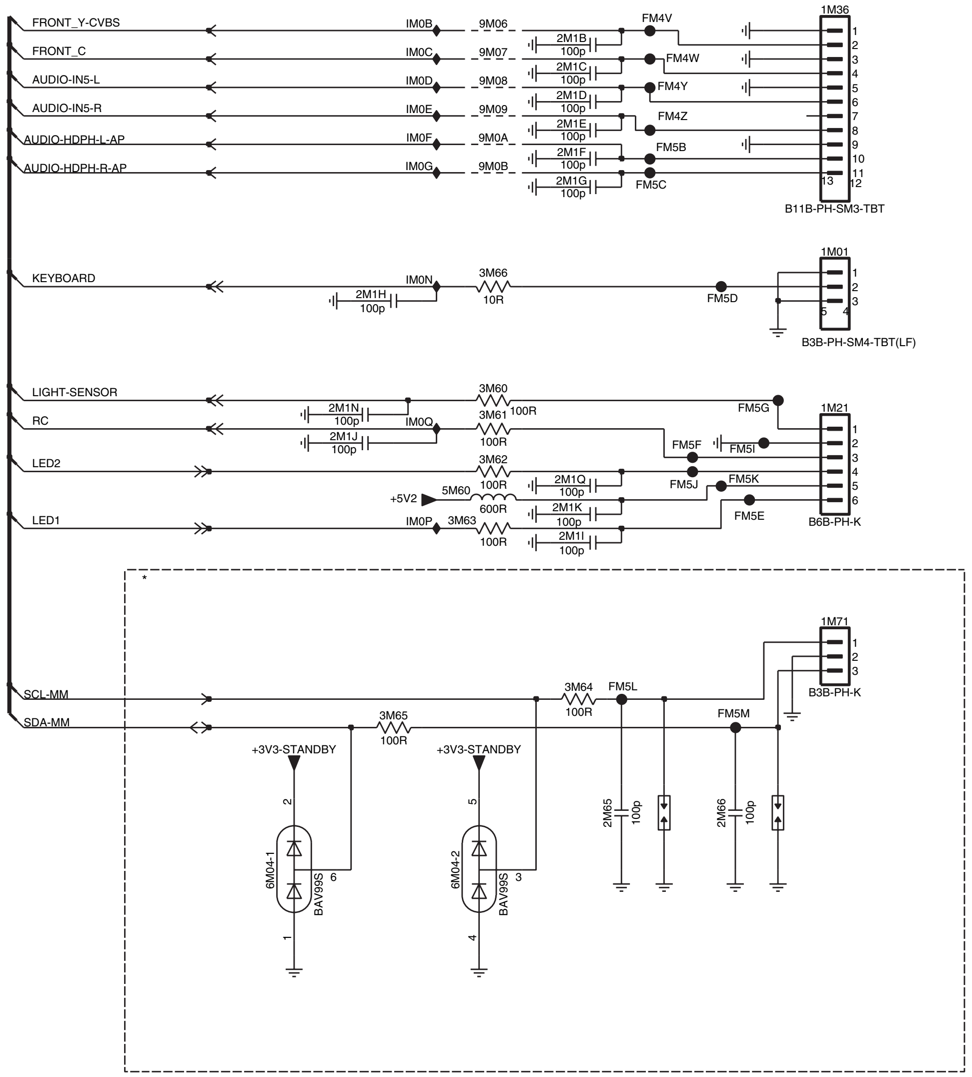
9M82-1	C7
9M82-2	C7
9M82-3	B7
9M82-4	B7
9M83-1	B7
9M83-2	B7
9M83-3	B7
9M83-4	B7
9M84-1	B7
9M84-2	B7
9M84-3	B7
9M84-4	B7
9M85-1	B7
9M85-2	C7
9M85-3	C7
9M85-4	C7
9M86-1	C7
9M86-2	C7
9M86-3	C7
9M86-4	C7
9M87-1	C7
9M87-2	C7
9M87-3	C7
9M87-4	C7
9M88-1	D7
9M88-2	D7
9M88-3	D7
9M88-4	D7
9M89-1	D7
9M89-2	D7
9M89-3	D7
9M89-4	D7
9M8A	D7
9M8B	D7
9M8C	D7
9M8D	E7
9M8G	E7
9M8H	E7
9M90	E4
9M91	E4
cM80	E7
cM81	E7
cM82	E7
cM83	E7
cM84	E7
cM85	F7

SSB: Miscellaneous Part 2

B16B MISCELLANEOUS: PART 2 B16B


1
2
3
4
5
6
7
8
9
10
11
12
13
A
B
C
D
E
F
G
H
I
FRONT_Y-CVBS
FRONT_C
AUDIO-IN5-L
AUDIO-IN5-R
AUDIO-HDPH-L-AP
AUDIO-HDPH-R-AP
IM0B
IM0C
IM0D
IM0E
IM0F
IM0G
9M06
9M07
9M08
9M09
9M0A
9M0B
2M1B 100p
2M1C 100p
2M1D 100p
2M1E 100p
2M1F 100p
2M1G 100p
FM4V
FM4W
FM4Y
FM4Z
FM5B
FM5C
1M36
1 2 3 4 5 6 7 8 9 10 11 12 13
B11B-PH-SM3-TBT
KEYBOARD
IM0N
2M1H 100p
3M66 10R
FM5D
1M01
1 2 3 4 5
B3B-PH-SM4-TBT(LF)
LIGHT-SENSOR
RC
LED2
LED1
2M1N 100p
2M1J 100p
IM0Q
3M60 100R
3M61 100R
3M62 100R
+5V2
5M60 600R
2M1Q 100p
2M1K 100p
IM0P
3M63 100R
2M1I 100p
FM5G
FM5F
FM5I
FM5J
FM5K
FM5E
1M21
1 2 3 4 5 6
B6B-PH-K
*
SCL-MM
SDA-MM
3M65 100R
3M64 100R
FM5L
FM5M
1M71
1 2 3
B3B-PH-K
+3V3-STANDBY
+3V3-STANDBY
6M04-1 BAV99S
2 6 1
6M04-2 BAV99S
5 3 4
2M65 100p
2M66 100p

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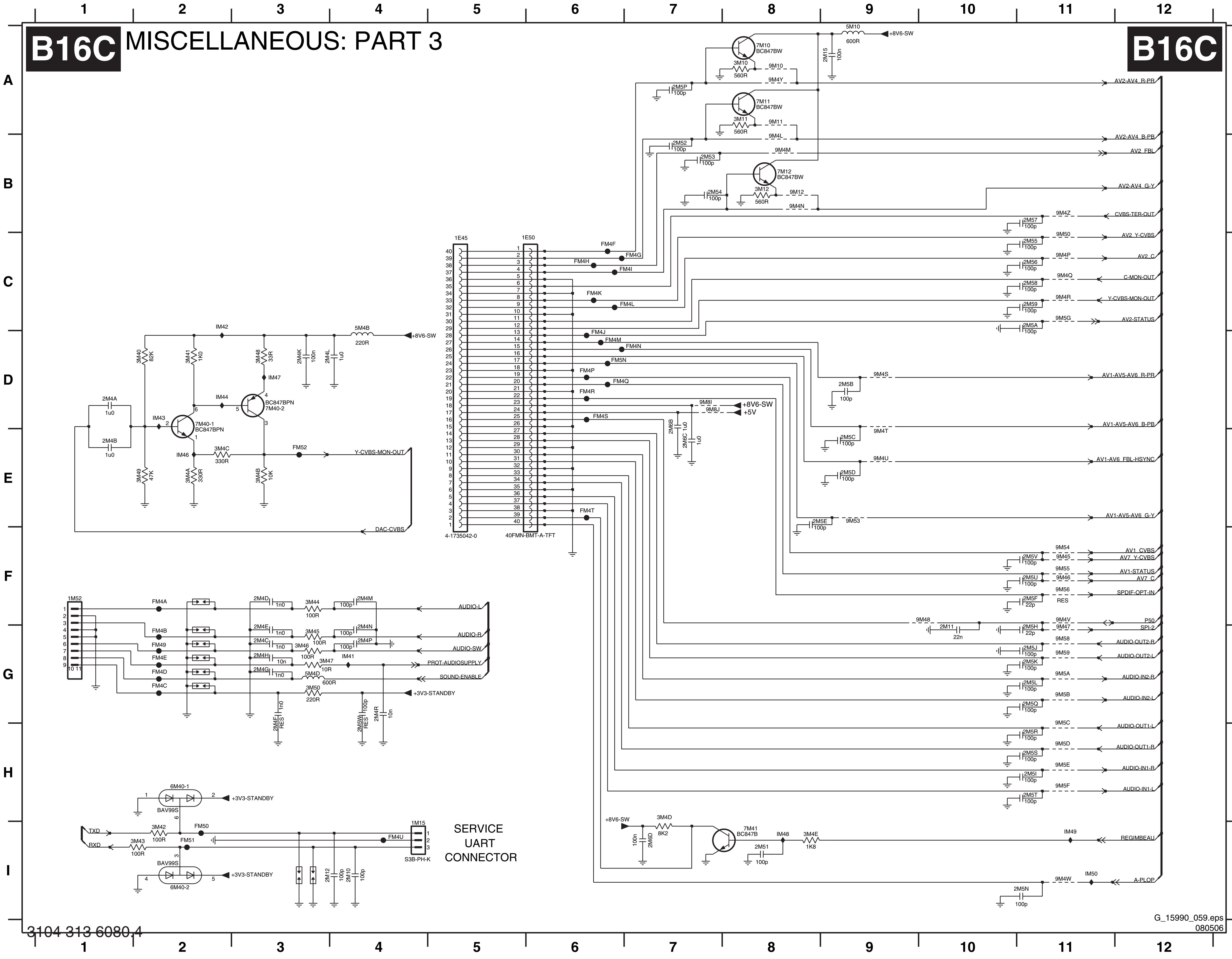
1M01	C9
1M21	D9
1M36	B9
1M71	E9
2M1B	B8
2M1C	B8
2M1D	B8
2M1E	B8
2M1F	B8
2M1G	C8
2M1H	C7
2M1I	D8
2M1J	D7
2M1K	D8
2M1N	D7
2M1Q	D8
2M65	F8
2M66	F9
3M60	D7
3M61	D7
3M62	D7
3M63	D7
3M64	E8
3M65	E7
3M66	C7
5M60	D7
6M04-1	F6
6M04-2	F7
9M06	B7
9M07	B7
9M08	B7
9M09	B7
9M0A	B7
9M0B	B7
FM4V	B8
FM4W	B8
FM4Y	B8
FM4Z	B8
FM5B	B8
FM5C	C8
FM5D	C9
FM5E	D9
FM5F	D8
FM5G	D9
FM5I	D9
FM5J	D8
FM5K	D9
FM5L	E8
FM5M	E9
IM0B	B7
IM0C	B7
IM0D	B7
IM0E	B7
IM0F	B7
IM0G	B7
IM0N	C7
IM0P	D7
IM0Q	D7

SSB: Miscellaneous Part 3


B16C
MISCELLANEOUS: PART 3
B16C
1E45
1E50
4-1735042-0
40FMN-BMT-A-TFT
7M10 BC847BW
7M11 BC847BW
7M12 BC847BW
3M10 560R
3M11 560R
3M12 560R
5M10 600R
2M15 100n
+8V6-SW
AV2-AV4_R-PR
AV2-AV4_B-PB
AV2_FBL
AV2-AV4_G-Y
CVBS-TER-OUT
AV2_Y-CVBS
AV2_C
C-MON-OUT
Y-CVBS-MON-OUT
AV2-STATUS
AV1-AV5-AV6_R-PR
AV1-AV5-AV6_B-PB
AV1-AV6_FBL-HSYNC
AV1-AV5-AV6_G-Y
AV1_CVBS
AV7_Y-CVBS
AV1-STATUS
AV7_C
SPDIF-OPT-IN
P50
SPI-2
AUDIO-OUT2-R
AUDIO-OUT2-L
AUDIO-IN2-R
AUDIO-IN2-L
AUDIO-OUT1-L
AUDIO-OUT1-R
AUDIO-IN1-R
AUDIO-IN1-L
REGIMBEAU
A-PLOP
7M40-1 BC847BPN
7M40-2 BC847BPN
5M4B 220R
3M40 82K
3M41 1K0
3M48 33R
2M4K 100n
2M4L 1u0
2M4A 1u0
2M4B 1u0
3M4C 330R
3M49 47K
3M4A 330R
3M4B 10K
Y-CVBS-MON-OUT
DAC-CVBS
1M52
AUDIO-L
AUDIO-R
AUDIO-SW
PROT-AUDIOSUPPLY
SOUND-ENABLE
+3V3-STANDBY
3M44 100R
3M45 100R
3M46 100R
3M47 10R
5M4D 600R
3M50 220R
6M40-1 BAV99S
6M40-2 BAV99S
TXD
RXD
3M42 100R
3M43 100R
1M15
S3B-PH-K
SERVICE UART CONNECTOR
7M41 BC847B
3M4D 8K2
3M4E 1K8
2M51 100p
2M5N 100p
2M11 22n
+8V6-SW
+5V
3104 313 6080.4
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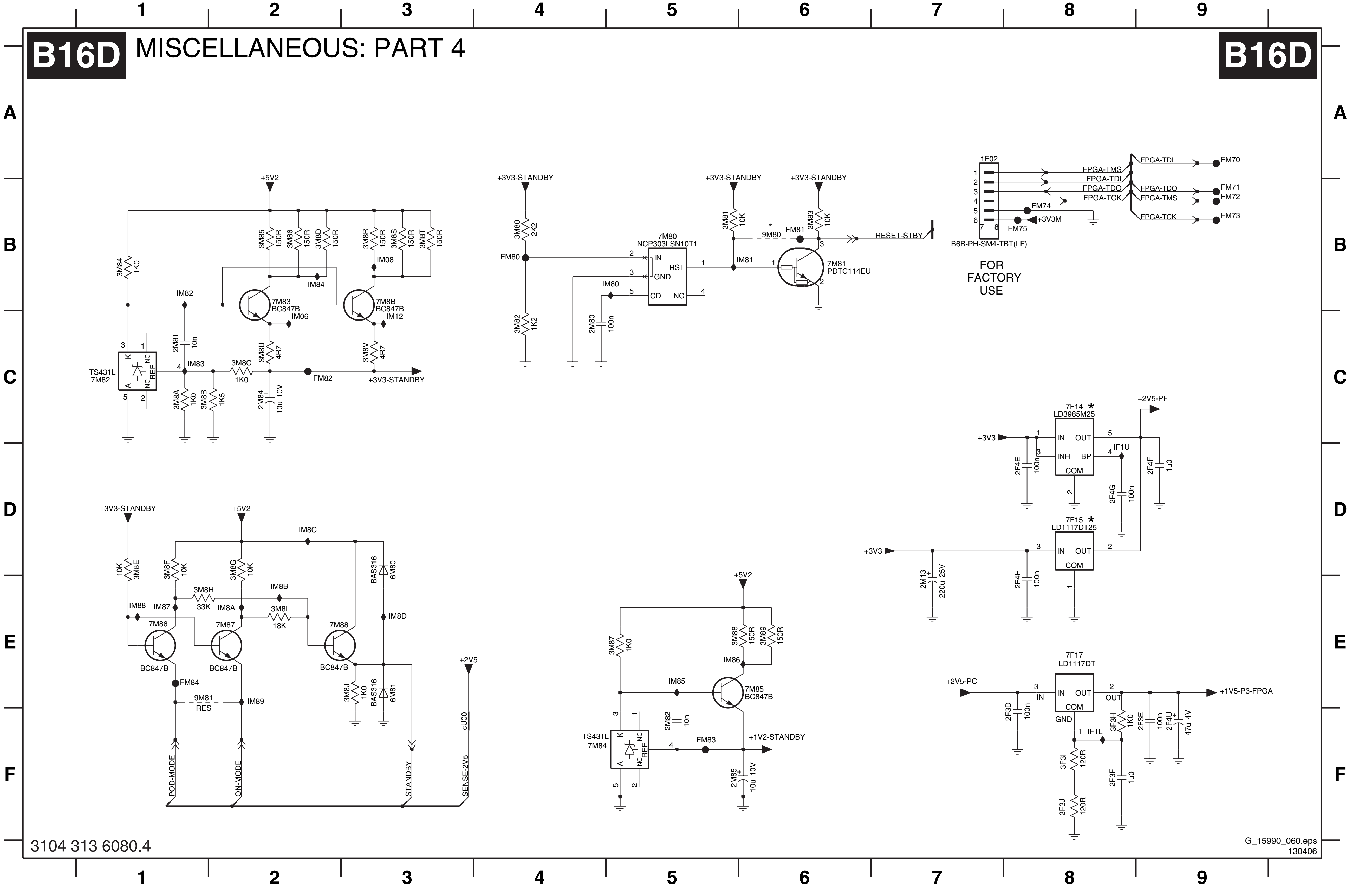
1E45	C5
1E50	C6
1M15	I4
1M52	F1
2M11	G10
2M12	I3
2M15	A9
2M17	I4
2M4A	D1
2M4B	E1
2M4C	G3
2M4D	F3
2M4E	G3
2M4F	H3
2M4G	G3
2M4H	G3
2M4K	D3
2M4L	D3
2M4M	F4
2M4N	G4
2M4P	G4
2M4R	G4
2M51	I8
2M52	B7
2M53	B7
2M54	B7
2M55	C11
2M56	C11
2M57	B11
2M58	C11
2M59	C11
2M5A	C11
2M5B	D9
2M5C	E9
2M5D	E9
2M5E	E8
2M5F	F11
2M5H	G11
2M5I	H11
2M5J	G11
2M5K	G11
2M5L	G11
2M5N	I11
2M5P	A7
2M5Q	G11
2M5R	H11
2M5S	H11
2M5T	H11
2M5U	F11
2M5V	F11
2M5W	H4
2M6B	D7
2M6C	E7
2M6D	I7
3M10	A8
3M11	A8
3M12	B8
3M40	D2
3M41	D2
3M42	I2
3M43	I2
3M44	F3
3M45	G3
3M46	G3
3M47	G3
3M48	D3
3M49	E2
3M4A	E2
3M4B	E3
3M4C	E2
3M4D	H7
3M4E	I8
3M50	G3
5M10	A9
5M4B	C4
5M4D	G3
6M40-1	H2
6M40-2	I2
7M10	A8
7M11	A8
7M12	B8
7M40-1	D2
7M40-2	D3
7M41	I8
9M10	A8
9M11	A8
9M12	B8
9M45	F11
9M46	F11
9M47	G11
9M48	F10
9M4L	B8
9M4M	B8
9M4N	B8
9M4P	C11
9M4Q	C11
9M4R	C11
9M4S	D9
9M4T	E9
9M4U	E9
9M4V	F11
9M4W	I11
9M4Y	A8
9M4Z	B11
9M50	C11
9M53	E9
9M54	F11
9M55	F11
9M56	F11
9M58	G11
9M59	G11
9M5A	G11
9M5B	G11
9M5C	H11
9M5D	H11
9M5E	H11
9M5F	H11
9M5G	C11
9M8I	D7
9M8J	D7
FM49	G2
FM4A	F2
FM4B	G2
FM4C	G2
FM4D	G2
FM4E	G2
FM4F	C6
FM4G	C7
FM4H	C6
FM4I	C7
FM4J	D6
FM4K	C6
FM4L	C7
FM4M	D6
FM4N	D7
FM4P	D6
FM4Q	D6
FM4R	D6
FM4S	D6
FM4T	E6
FM4U	I4
FM50	I2
FM51	I2
FM52	E3
FM5N	D6
IM41	G4
IM42	C2
IM43	D2
IM44	D2
IM46	E2
IM47	D3
IM48	I8
IM49	I11
IM50	I11

SSB: Miscellaneous Part 4


B16D
MISCELLANEOUS: PART 4
1 2 3 4 5 6 7 8 9
A B C D E F
+5V2
3M84 1K0
3M85 150R
3M86 150R
3M8D 150R
3M8R 150R
3M8S 150R
3M8T 150R
IM82
IM84
IM08
7M83 BC847B
IM06
7M8B BC847B
IM12
2M81 10n
3M8U 4R7
3M8V 4R7
TS431L 7M82
IM83
3M8C 1K0
FM82
+3V3-STANDBY
3M8A 1K0
3M8B 1K5
2M84 10u 10V
+3V3-STANDBY
3M80 2K2
FM80
3M82 1K2
7M80 NCP303LSN10T1
IN GND CD RST NC
IM80
2M80 100n
3M81 10K
3M83 10K
9M80
FM81
IM81
7M81 PDTC114EU
RESET-STBY
1F02
B6B-PH-SM4-TBT(LF)
FPGA-TMS
FPGA-TDI
FPGA-TDO
FPGA-TCK
FM74
FM75
+3V3M
FM70
FM71
FM72
FM73
FOR FACTORY USE
7F14 LD3985M25
+3V3
IN INH COM OUT BP
2F4E 100n
IF1U
2F4G 100n
2F4F 1u0
+2V5-PF
7F15 LD1117DT25
2M13 220u 25V
2F4H 100n
+3V3-STANDBY
3M8E 10K
3M8F 10K
3M8G 10K
IM8C
BAS316 6M80
3M8H 33K
IM8B
IM88
IM87
IM8A
3M8I 18K
IM8D
7M86 BC847B
7M87 BC847B
7M88 BC847B
FM84
9M81 RES
IM89
3M8J 1K0
BAS316 6M81
+2V5
cU00
POD-MODE
ON-MODE
STANDBY
SENSE-2V5
+5V2
3M87 1K0
3M88 150R
3M89 150R
IM86
IM85
7M85 BC847B
2M82 10n
TS431L 7M84
FM83
+1V2-STANDBY
2M85 10u 10V
7F17 LD1117DT
+2V5-PC
2F3D 100n
IN OUT COM GND
3F3H 1K0
IF1L
2F3E 100n
2F4U 47u 4V
+1V5-P3-FPGA
3F3I 120R
3F3J 120R
2F3F 1u0
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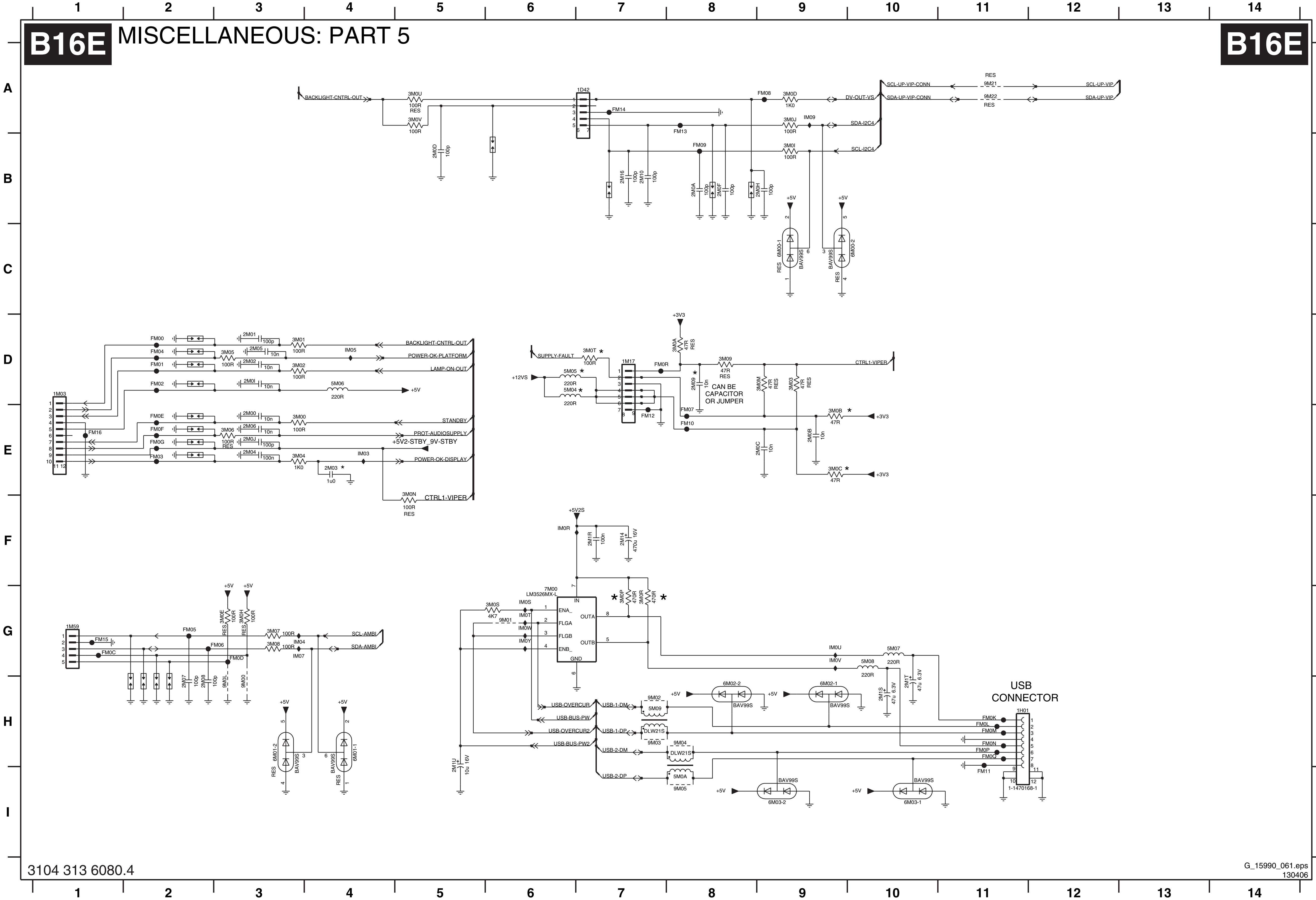
1F02	A7
2F3D	F8
2F3E	F9
2F3F	F8
2F4E	D8
2F4F	D9
2F4G	D8
2F4H	E8
2F4U	F9
2M13	E7
2M80	C4
2M81	C1
2M82	F5
2M84	C2
2M85	F5
3F3H	F8
3F3I	F8
3F3J	F8
3M80	B4
3M81	B5
3M82	C4
3M83	B6
3M84	B1
3M85	B2
3M86	B2
3M87	E5
3M88	E5
3M89	E6
3M8A	C1
3M8B	C1
3M8C	C2
3M8D	B2
3M8E	D1
3M8F	D1
3M8G	D2
3M8H	E1
3M8I	E2
3M8J	E3
3M8R	B3
3M8S	B3
3M8T	B3
3M8U	C2
3M8V	C3
6M80	D3
6M81	E3
7F14	C8
7F15	D8
7F17	E8
7M80	B5
7M81	B6
7M82	C1
7M83	B2
7M84	F4
7M85	E6
7M86	E1
7M87	E2
7M88	E2
7M8B	B3
9M80	B6
9M81	E1
FM70	A9
FM71	B9
FM72	B9
FM73	B9
FM74	B8
FM75	B8
FM80	B4
FM81	B6
FM82	C2
FM83	F5
FM84	E1
IF1L	F8
IF1U	D8
IM06	C2
IM08	B3
IM12	C3
IM80	B5
IM81	B6
IM82	B1
IM83	C1
IM84	B2
IM85	E5
IM86	E5
IM87	E1
IM88	E1
IM89	E2
IM8A	E2
IM8B	E2
IM8C	D2
IM8D	E3
cU00	F3

SSB: Miscellaneous Part 5


B16E
MISCELLANEOUS: PART 5
B16E
BACKLIGHT-CNTRL-OUT
1D42
FM14
FM13
FM09
FM08
DV-OUT-VS
SDA-I2C4
SCL-I2C4
SCL-UP-VIP-CONN
SDA-UP-VIP-CONN
SCL-UP-VIP
SDA-UP-VIP
9M21
9M22
RES
6M00-1
6M00-2
BAV99S
+5V
1M03
FM16
BACKLIGHT-CNTRL-OUT
POWER-OK-PLATFORM
LAMP-ON-OUT
+5V
STANDBY
PROT-AUDIOSUPPLY
+5V2-STBY_9V-STBY
POWER-OK-DISPLAY
CTRL1-VIPER
SUPPLY-FAULT
+12VS
1M17
+3V3
CTRL1-VIPER
CAN BE
CAPACITOR
OR JUMPER
FM07
FM10
FM12
+3V3
+5V2S
IM0R
7M00
LM3526MX-L
IN
ENA_
FLGA
FLGB
ENB_
OUTA
OUTB
GND
1M59
FM15
FM0C
FM05
FM06
FM0D
SCL-AMBI
SDA-AMBI
6M01-2
6M01-1
USB-OVERCUR
USB-BUS-PW
USB-OVERCUR2
USB-BUS-PW2
USB-1-DM
USB-1-DP
USB-2-DM
USB-2-DP
DLW21S
6M02-2
6M02-1
6M03-2
6M03-1
USB
CONNECTOR
1H01
1-1470168-1
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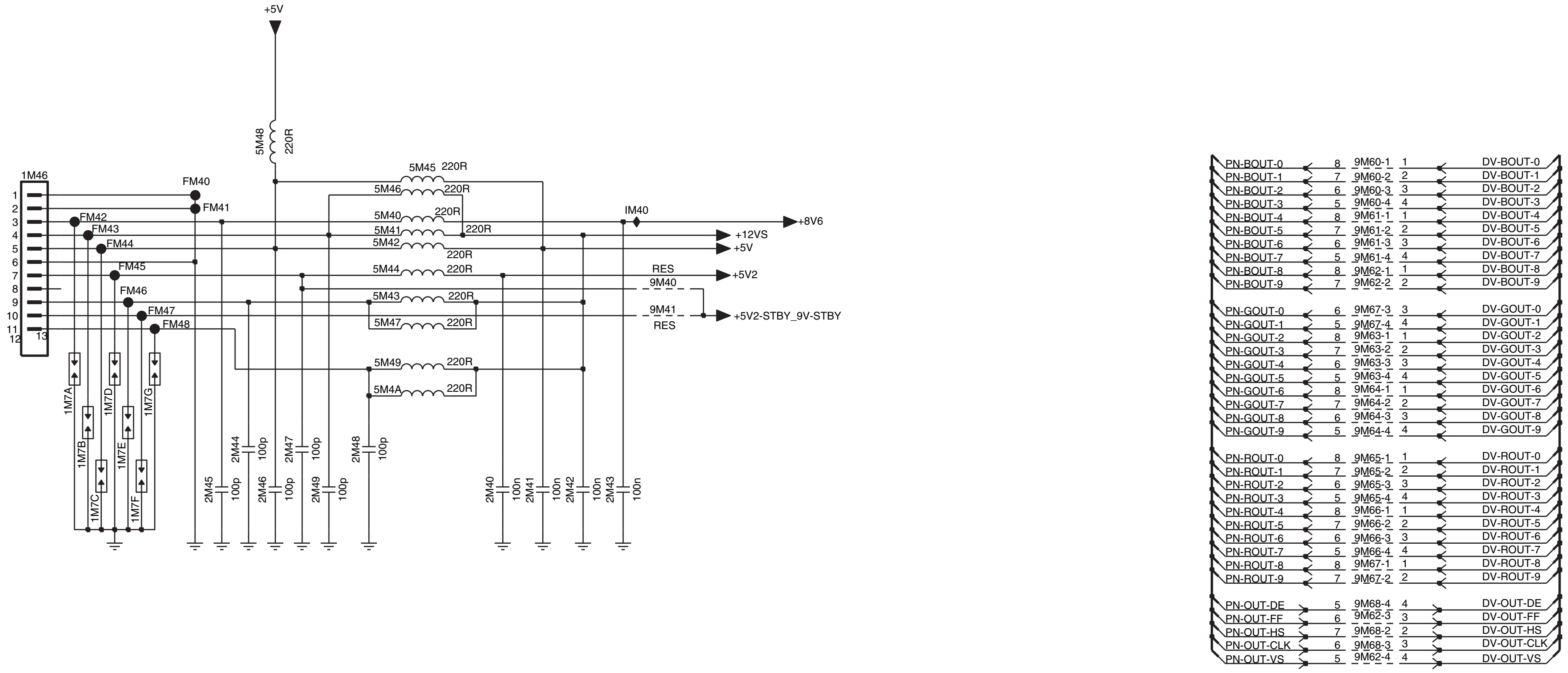
1D42	A7
1H01	H11
1M03	D1
1M17	D7
1M59	G1
2M00	E3
2M01	D3
2M02	D3
2M03	E4
2M04	E3
2M05	D3
2M06	E3
2M07	H2
2M08	H2
2M09	D8
2M0A	B8
2M0B	E9
2M0C	E9
2M0D	B5
2M0F	B8
2M0H	B9
2M0I	D3
2M0J	E3
2M10	B7
2M14	F7
2M16	B7
2M1R	F7
2M1S	H10
2M1T	H10
2M1U	H5
3M00	E3
3M01	D3
3M02	D3
3M03	D9
3M04	E3
3M05	D3
3M06	E3
3M07	G3
3M08	G3
3M09	D8
3M0A	D8
3M0B	E9
3M0C	E9
3M0D	A9
3M0E	G3
3M0H	G3
3M0I	B9
3M0J	A9
3M0M	D9
3M0N	F5
3M0P	G7
3M0R	G7
3M0S	G6
3M0T	D7
3M0U	A5
3M0V	A5
5M04	D6
5M05	D6
5M06	D4
5M07	G10
5M08	G10
5M09	H7
5M0A	I8
6M00-1	C9
6M00-2	C10
6M01-1	H4
6M01-2	H3
6M02-1	H9
6M02-2	H8
6M03-1	I10
6M03-2	I9
7M00	G6
9M00	H3
9M01	G6
9M02	H7
9M03	H7
9M04	H8
9M05	I8
9M0L	H3
9M21	A11
9M22	A11
FM00	D2
FM01	D2
FM02	D2
FM03	E2
FM04	D2
FM05	G2
FM06	G3
FM07	E8
FM08	A9
FM09	B8
FM0C	G1
FM0D	G3
FM0E	E2
FM0F	E2
FM0G	E2
FM0K	H11
FM0L	H11
FM0M	H11
FM0N	H11
FM0P	H11
FM0Q	H11
FM0R	D7
FM10	E8
FM11	I11
FM12	E7
FM13	A8
FM14	A7
FM15	G1
FM16	E1
IM03	E4
IM04	G3
IM05	D4
IM07	G3
IM09	A9
IM0R	F6
IM0S	G6
IM0T	G6
IM0U	G9
IM0V	G9
IM0W	G6
IM0Y	G6

SSB: Miscellaneous Part 6

B16F MISCELLANEOUS: PART 6 **B16F**


+5V
5M48
220R
1M46
1
2
3
4
5
6
7
8
9
10
11
12
13
FM40
FM41
FM42
FM43
FM44
FM45
FM46
FM47
FM48
5M45 220R
5M46 220R
5M40 220R
5M41 220R
5M42 220R
5M44 220R
5M43 220R
5M47 220R
5M49 220R
5M4A 220R
IM40
+8V6
+12VS
+5V
RES
+5V2
9M40
9M41
RES
+5V2-STBY_9V-STBY
1M7A
1M7B
1M7C
1M7D
1M7E
1M7F
1M7G
2M45 100p
2M44 100p
2M46 100p
2M47 100p
2M49 100p
2M48 100p
2M40 100n
2M41 100n
2M42 100n
2M43 100n
PN-BOUT-0 8 9M60-1 1 DV-BOUT-0
PN-BOUT-1 7 9M60-2 2 DV-BOUT-1
PN-BOUT-2 6 9M60-3 3 DV-BOUT-2
PN-BOUT-3 5 9M60-4 4 DV-BOUT-3
PN-BOUT-4 8 9M61-1 1 DV-BOUT-4
PN-BOUT-5 7 9M61-2 2 DV-BOUT-5
PN-BOUT-6 6 9M61-3 3 DV-BOUT-6
PN-BOUT-7 5 9M61-4 4 DV-BOUT-7
PN-BOUT-8 8 9M62-1 1 DV-BOUT-8
PN-BOUT-9 7 9M62-2 2 DV-BOUT-9
PN-GOUT-0 6 9M67-3 3 DV-GOUT-0
PN-GOUT-1 5 9M67-4 4 DV-GOUT-1
PN-GOUT-2 8 9M63-1 1 DV-GOUT-2
PN-GOUT-3 7 9M63-2 2 DV-GOUT-3
PN-GOUT-4 6 9M63-3 3 DV-GOUT-4
PN-GOUT-5 5 9M63-4 4 DV-GOUT-5
PN-GOUT-6 8 9M64-1 1 DV-GOUT-6
PN-GOUT-7 7 9M64-2 2 DV-GOUT-7
PN-GOUT-8 6 9M64-3 3 DV-GOUT-8
PN-GOUT-9 5 9M64-4 4 DV-GOUT-9
PN-ROUT-0 8 9M65-1 1 DV-ROUT-0
PN-ROUT-1 7 9M65-2 2 DV-ROUT-1
PN-ROUT-2 6 9M65-3 3 DV-ROUT-2
PN-ROUT-3 5 9M65-4 4 DV-ROUT-3
PN-ROUT-4 8 9M66-1 1 DV-ROUT-4
PN-ROUT-5 7 9M66-2 2 DV-ROUT-5
PN-ROUT-6 6 9M66-3 3 DV-ROUT-6
PN-ROUT-7 5 9M66-4 4 DV-ROUT-7
PN-ROUT-8 8 9M67-1 1 DV-ROUT-8
PN-ROUT-9 7 9M67-2 2 DV-ROUT-9
PN-OUT-DE 5 9M68-4 4 DV-OUT-DE
PN-OUT-FF 6 9M62-3 3 DV-OUT-FF
PN-OUT-HS 7 9M68-2 2 DV-OUT-HS
PN-OUT-CLK 6 9M68-3 3 DV-OUT-CLK
PN-OUT-VS 5 9M62-4 4 DV-OUT-VS

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1M46	B1
1M7A	C1
1M7B	D1
1M7C	D1
1M7D	C1
1M7E	D1
1M7F	D1
1M7G	C2
2M40	D3
2M41	D4
2M42	D4
2M43	D4
2M44	D2
2M45	D2
2M46	D2
2M47	D2
2M48	D3
2M49	D2
5M40	B3
5M41	B3
5M42	B3
5M43	C3
5M44	C3
5M45	B3
5M46	B3
5M47	C3
5M48	B2
5M49	C3
5M4A	C3
9M40	C4
9M41	C4
9M60-1	B8
9M60-2	B8
9M60-3	B8
9M60-4	B8
9M61-1	B8
9M61-2	B8
9M61-3	B8
9M61-4	C8
9M62-1	C8
9M62-2	C8
9M62-3	D8
9M62-4	E8
9M63-1	C8
9M63-2	C8
9M63-3	C8
9M63-4	C8
9M64-1	C8
9M64-2	C8
9M64-3	C8
9M64-4	C8
9M65-1	D8
9M65-2	D8
9M65-3	D8
9M65-4	D8
9M66-1	D8
9M66-2	D8
9M66-3	D8
9M66-4	D8
9M67-1	D8
9M67-2	D8
9M67-3	C8
9M67-4	C8
9M68-2	E8
9M68-3	E8
9M68-4	D8
FM40	B2
FM41	B2
FM42	B1
FM43	B1
FM44	B1
FM45	C1
FM46	C1
FM47	C2
FM48	C2
IM40	B4

SSB: SRP Overview Part 1

Net Name	Diagram
+12V-DC	B01a (3x)
+12V-DC	B01b (1x)
+12VS	B01a (2x)
+12VS	B16e (2x)
+12VS	B16f (2x)
+12VSW	B01a (2x)
+12VSW	B01c (2x)
+12VSW	B04b (4x)
+12VSW	B04i (8x)
+12VSW	B05c (2x)
+12VSW	B05e (2x)
+12VSW	B08f (2x)
+1V2	B01a (8x)
+1V2	B05e (2x)
+1V2	B07d (14x)
+1V2-FPGA	B08b (1x)
+1V2-FPGA	B08c (2x)
+1V2-FPGA-SENSE	B01c (1x)
+1V2M	B08g (17x)
+1V2-PF	B08g (1x)
+1V2-PLL	B08b (1x)
+1V2-PLL	B08c (1x)
+1V2-STANDBY	B05e (1x)
+1V2-STANDBY	B05f (1x)
+1V2-STANDBY	B16d (2x)
+1V5-P3	B08e (2x)
+1V5-P3-FPGA	B08e (4x)
+1V5-P3-FPGA	B16d (4x)
+1V5-PLL	B08e (2x)
+1V5-RX	B08e (2x)
+1V5-SP-CORE	B06c (5x)
+1V5-SP-CORE	B06d (1x)
+1V5-TX	B08e (2x)
+1V8	B09c (5x)
+1V8DVB-MAIN	B02b (7x)
+1V8DVB-SUB	B03b (7x)
+2V5	B01a (14x)
+2V5	B05d (2x)
+2V5	B05e (2x)
+2V5	B06b (2x)
+2V5	B06c (4x)
+2V5	B06d (2x)
+2V5	B07d (6x)
+2V5	B16d (2x)
+2V5D	B01a (8x)
+2V5D	B07b (2x)
+2V5D	B07d (2x)
+2V5D-DDR	B07b (6x)
+2V5-DDR	B05d (4x)
+2V5-DDRPNX	B05d (1x)
+2V5-DDRPNX	B05f (1x)
+2V5-FPGA	B08b (1x)
+2V5-FPGA	B08c (1x)
+2V5M	B08g (21x)
+2V5-N	B05c (2x)
+2V5-P3	B08e (2x)
+2V5-PC	B01a (2x)
+2V5-PC	B16d (2x)
+2V5-PF	B08e (4x)
+2V5-PF	B08g (2x)
+2V5-PF	B16d (4x)
+2V5-PLL	B08e (2x)
+2V5-S	B05c (1x)
+2V5-S	B05f (1x)
+2V5-SPDDR	B06b (3x)
+2V5-SP-DDR	B06b (1x)
+2V5-SP-DDR	B06c (2x)
+2V5-SP-TUN	B06a (2x)
+2V5-SP-TUN	B06c (2x)
+2V5-VPR	B07b (1x)
+2V5-VPR	B07c (1x)
+2V5-VPR	B07d (3x)
+2V8	B01a (2x)
+33VREG	B02a (2x)
+33VREG	B03a (2x)
+33VTUN-SUB	B03a (2x)
+3V3	B01a (6x)
+3V3	B02b (8x)
+3V3	B03b (6x)
+3V3	B05a (2x)
+3V3	B05e (2x)
+3V3	B05f (14x)
+3V3	B06c (2x)
+3V3	B07a (40x)
+3V3	B07c (2x)
+3V3	B07d (8x)
+3V3	B08d (2x)
+3V3	B08e (8x)
+3V3	B08f (16x)
+3V3	B08g (8x)
+3V3	B09b (2x)
+3V3	B09c (8x)
+3V3	B10a (20x)
+3V3	B10b (6x)
+3V3	B10c (14x)
+3V3	B10d (6x)
+3V3	B11b (2x)
+3V3	B12a (24x)
+3V3	B12b (2x)
+3V3	B13 (4x)
+3V3	B14a (4x)
+3V3	B14b (2x)
+3V3	B16e (6x)
+3V3-AV	B09c (2x)
+3V3BUFF	B14b (4x)
+3V3DVB-MAIN	B02b (10x)
+3V3DVB-SUB	B03b (10x)
+3V3-ET-ANA	B13 (4x)
+3V3-ET-DIG	B13 (6x)
+3V3-FPGA	B08b (4x)
+3V3M	B08g (74x)
+3V3M	B16d (2x)
+3V3-P3	B08e (7x)
+3V3-SD1	B08d (3x)
+3V3-SP-GEN	B06a (5x)
+3V3-SP-GEN	B06c (2x)
+3V3-SP-GEN	B06d (1x)
+3V3-STANDBY	B05d (6x)
+3V3-STANDBY	B05e (32x)
+3V3-STANDBY	B08f (6x)
+3V3-STANDBY	B15a (4x)
+3V3-STANDBY	B16b (4x)
+3V3-STANDBY	B16c (6x)
+3V3-STANDBY	B16d (10x)
+3V3-UART	B12b (2x)
+3V3-VCCA	B14a (2x)
+3V3-VCCD	B14a (15x)
+5V	B02a (4x)
+5V	B02b (6x)
+5V	B03a (4x)
+5V	B03b (4x)
+5V	B05e (2x)
+5V	B09c (2x)
+5V	B10a (4x)
+5V	B11a (12x)
+5V	B16c (2x)
+5V	B16e (22x)
+5V	B16f (4x)
+5V2	B01a (4x)
+5V2	B05c (2x)
+5V2	B05e (12x)
+5V2	B08f (4x)
+5V2	B10d (4x)
+5V2	B11a (4x)
+5V2	B11b (10x)
+5V2	B12b (2x)
+5V2	B16b (2x)
+5V2	B16d (6x)
+5V2	B16f (2x)
+5V2S	B04b (2x)
+5V2S	B04f (2x)
+5V2S	B04i (4x)
+5V2S	B08f (8x)
+5V2S	B11b (2x)
+5V2S	B16e (2x)
+5V2-STBY_9V-STBY	B16e (1x)
+5V2-STBY_9V-STBY	B16f (1x)
+5VaM	B04c (3x)
+5VaS	B04g (3x)
+5V-AUD	B04b (1x)
+5V-AUD	B04i (2x)
+5VMPIF-MAIN	B04c (1x)
+5VMPIF-SUB	B04g (1x)
+5VREG	B02a (2x)
+5VREG	B03a (2x)
+5VTUN_MPIF	B03a (2x)
+5VTUN_MPIF	B04b (2x)
+5VTUN_MPIF	B04c (2x)
+5VTUN_MPIF	B04g (2x)
+5VTUN-MAIN	B02a (5x)
+5VTUN-SUB	B03a (7x)
+8V6	B16f (2x)
+8V6-SW	B01b (2x)
+8V6-SW	B03a (2x)
+8V6-SW	B04b (2x)
+8V6-SW	B04f (2x)
+8V6-SW	B05e (2x)
+8V6-SW	B06d (2x)
+8V6-SW	B08f (8x)
+8V6-SW	B16c (8x)
+8VaM	B04c (5x)
+8VaS	B04g (5x)
+8V-AUD	B04b (2x)
+8VMPIF-MAIN	B04b (1x)
+8VMPIF-MAIN	B04c (1x)
+8VMPIF-SUB	B04f (1x)
+8VMPIF-SUB	B04g (1x)
+AUDIO-POWER	B15a (7x)
+AUDIO-POWER	B15b (3x)
+AUDIO-POWER	B15c (1x)
+AUDIO-POWER	B15d (4x)
+SUB-OUTPUT	B15b (2x)
+SUB-OUTPUT	B15c (1x)
+VDISP_+1V2FPGA	B01c (2x)
+VDISP_+1V2FPGA	B08f (2x)
+VTUN	B01b (2x)
+VTUN	B03a (2x)
1V8-PLL	B09c (3x)
3V3-APLL	B09c (2x)
3V3-AVI	B09c (3x)
3V3-DIG	B09b (4x)
3V3-DIG	B09c (5x)
3V3-PLL	B09c (2x)
A(0)	B06b (2x)
A(1)	B06b (2x)
A(10)	B06b (2x)
A(11)	B06b (2x)
A(2)	B06b (2x)
A(3)	B06b (2x)
A(4)	B06b (2x)
A(5)	B06b (2x)
A(6)	B06b (2x)
A(7)	B06b (2x)
A(8)	B06b (2x)
A(9)	B06b (2x)
ADAC1	B04i (1x)
ADAC1	B05a (1x)
ADAC2	B04i (1x)
ADAC2	B05a (1x)
ADAC4	B04i (1x)
ADAC4	B05a (1x)
ADAC7	B04i (1x)
ADAC7	B05a (1x)
ADAC8	B04i (1x)
ADAC8	B05a (1x)
ADLE	B10a (1x)
ADLE	B10c (2x)
ADOE	B10a (1x)
ADOE	B10b (1x)
ADOE	B10c (2x)
AGC1	B04g (1x)
AGC1	B16a (1x)
AGC2	B04c (1x)
AGC2	B16a (1x)
AGC-IF-MAIN	B02a (1x)
AGC-IF-MAIN	B02b (1x)
AGC-IF-SUB	B03a (1x)
AGC-IF-SUB	B03b (1x)
AGC-MAIN	B02a (1x)
AGC-MAIN	B16a (1x)
AGC-SUB	B03a (1x)
AGC-SUB	B16a (1x)
AGC-TUN-MAIN	B02a (1x)
AGC-TUN-MAIN	B02b (1x)
AGC-TUN-SUB	B03a (1x)
AGC-TUN-SUB	B03b (1x)
AIN-5V	B09a (3x)
ALE	B05e (2x)
A-PLOP	B05c (1x)
A-PLOP	B07a (1x)
A-PLOP	B11a (2x)
A-PLOP	B11b (1x)
A-PLOP	B16c (1x)
ARX0-	B09a (1x)
ARX0-	B09b (1x)
ARX0+	B09a (1x)
ARX0+	B09b (1x)
ARX1-	B09a (1x)
ARX1-	B09b (1x)
ARX1+	B09a (1x)
ARX1+	B09b (1x)
ARX2-	B09a (1x)
ARX2-	B09b (1x)
ARX2+	B09a (1x)
ARX2+	B09b (1x)
ARXC-	B09a (1x)
ARXC-	B09b (1x)
ARXC+	B09a (1x)
ARXC+	B09b (1x)
ARX-DDC-SCL	B09a (2x)
ARX-DDC-SDA	B09a (2x)
ARX-HOTPLUG	B09a (2x)
ASDO	B08b (2x)
ASDO	B08c (1x)
AUDIO-CENTER-IN	B04d (1x)
AUDIO-CENTER-IN	B04h (1x)
AUDIO-CENTER-IN	B15d (1x)
AUDIO-HDPH-L	B04i (1x)
AUDIO-HDPH-L	B11b (1x)
AUDIO-HDPH-L-AP	B11b (1x)
AUDIO-HDPH-L-AP	B16b (1x)
AUDIO-HDPH-R	B04i (1x)
AUDIO-HDPH-R	B11b (1x)
AUDIO-HDPH-R-AP	B11b (1x)
AUDIO-HDPH-R-AP	B16b (1x)
AUDIO-IN1-L	B04d (1x)
AUDIO-IN1-L	B04h (1x)
AUDIO-IN1-L	B16c (1x)
AUDIO-IN1-R	B04d (1x)
AUDIO-IN1-R	B04h (1x)
AUDIO-IN1-R	B16c (1x)
AUDIO-IN2-L	B04d (1x)
AUDIO-IN2-L	B04h (1x)
AUDIO-IN2-L	B16c (1x)
AUDIO-IN2-R	B04d (1x)
AUDIO-IN2-R	B04h (1x)
AUDIO-IN2-R	B16c (1x)
AUDIO-IN3-L	B04d (1x)
AUDIO-IN3-L	B04h (1x)
AUDIO-IN3-L	B11a (1x)
AUDIO-IN3-R	B04d (1x)
AUDIO-IN3-R	B04h (1x)
AUDIO-IN3-R	B11a (1x)
AUDIO-IN4-L	B04d (1x)
AUDIO-IN4-L	B04h (1x)
AUDIO-IN4-L	B11a (1x)
AUDIO-IN4-R	B04d (1x)
AUDIO-IN4-R	B04h (1x)
AUDIO-IN4-R	B11a (1x)
AUDIO-IN5-L	B04d (1x)
AUDIO-IN5-L	B04h (1x)
AUDIO-IN5-L	B16b (1x)
AUDIO-IN5-R	B04d (1x)
AUDIO-IN5-R	B04h (1x)
AUDIO-IN5-R	B16b (1x)
AUDIO-L	B04i (1x)
AUDIO-L	B15a (1x)
AUDIO-L	B16c (1x)
AUDIO-OUT1-L	B04d (1x)
AUDIO-OUT1-L	B16c (1x)
AUDIO-OUT1-R	B04d (1x)
AUDIO-OUT1-R	B16c (1x)
AUDIO-OUT2-L	B04d (1x)
AUDIO-OUT2-L	B16c (1x)
AUDIO-OUT2-R	B04d (1x)
AUDIO-OUT2-R	B16c (1x)
AUDIO-OUT3-L	B04d (1x)
AUDIO-OUT3-L	B11a (1x)
AUDIO-OUT3-R	B04d (1x)
AUDIO-OUT3-R	B11a (1x)
-AUDIO-POWER	B15a (6x)
-AUDIO-POWER	B15b (5x)
-AUDIO-POWER	B15c (1x)
-AUDIO-POWER	B15d (4x)
AUDIO-R	B04i (1x)
AUDIO-R	B15a (1x)
AUDIO-R	B16c (1x)
AUDIO-SW	B04i (1x)
AUDIO-SW	B15d (1x)
AUDIO-SW	B16c (1x)
AV1_CVBS	B04a (1x)
AV1_CVBS	B04e (1x)
AV1_CVBS	B16c (1x)
AV1-AV5-AV6_B-PB	B04e (1x)
AV1-AV5-AV6_B-PB	B16c (1x)
AV1-AV5-AV6_B-PB-A	B04e (1x)
AV1-AV5-AV6_B-PB-A	B09b (1x)
AV1-AV5-AV6_B-PB-A	B11a (1x)
AV1-AV5-AV6_B-PB-D	B04a (1x)
AV1-AV5-AV6_B-PB-D	B04e (2x)
AV1-AV5-AV6_G-Y	B04e (1x)
AV1-AV5-AV6_G-Y	B16c (1x)
AV1-AV5-AV6_G-Y-A	B04e (1x)
AV1-AV5-AV6_G-Y-A	B09b (2x)
AV1-AV5-AV6_G-Y-A	B11a (1x)
AV1-AV5-AV6_G-Y-D	B04a (1x)
AV1-AV5-AV6_G-Y-D	B04e (2x)
AV1-AV5-AV6_R-PR	B04e (1x)
AV1-AV5-AV6_R-PR	B16c (1x)
AV1-AV5-AV6_R-PR-A	B04e (1x)
AV1-AV5-AV6_R-PR-A	B09b (1x)
AV1-AV5-AV6_R-PR-A	B11a (1x)
AV1-AV5-AV6_R-PR-D	B04a (1x)
AV1-AV5-AV6_R-PR-D	B04e (2x)
AV1-AV6_FBL-HSYNC	B05a (2x)
AV1-AV6_FBL-HSYNC	B16c (1x)
AV1-STATUS	B05e (2x)
AV1-STATUS	B16c (1x)
AV2_C	B04a (1x)
AV2_C	B04e (1x)
AV2_C	B16c (1x)
AV2_FBL	B05a (2x)
AV2_FBL	B16c (1x)
AV2_Y-CVBS	B04a (1x)
AV2_Y-CVBS	B04e (1x)
AV2_Y-CVBS	B16c (1x)
AV2-AV4_B-PB	B04e (2x)
AV2-AV4_B-PB	B16c (1x)
AV2-AV4_B-PB-A	B04e (1x)
AV2-AV4_B-PB-A	B09b (1x)
AV2-AV4_B-PB-D	B04a (1x)
AV2-AV4_B-PB-D	B04e (1x)
AV2-AV4_G-Y	B04e (2x)
AV2-AV4_G-Y	B16c (1x)
AV2-AV4_G-Y-A	B04e (1x)
AV2-AV4_G-Y-A	B09b (2x)
AV2-AV4_G-Y-D	B04a (1x)
AV2-AV4_G-Y-D	B04e (1x)
AV2-AV4_R-PR	B04e (2x)
AV2-AV4_R-PR	B16c (1x)
AV2-AV4_R-PR-A	B04e (1x)
AV2-AV4_R-PR-A	B09b (1x)
AV2-AV4_R-PR-D	B04a (1x)
AV2-AV4_R-PR-D	B04e (1x)
AV2-STATUS	B05e (2x)
AV2-STATUS	B16c (1x)
AV6_VSYNC	B05a (2x)
AV7_C	B04a (1x)
AV7_C	B04e (1x)
AV7_C	B16c (1x)
AV7_Y-CVBS	B04a (1x)
AV7_Y-CVBS	B04e (1x)
AV7_Y-CVBS	B16c (1x)
BA0	B06b (2x)
BA1	B06b (2x)
BACKLIGHT-CNTRL-OUT	B08f (1x)
BACKLIGHT-CNTRL-OUT	B16e (2x)
BACKLIGHT-CONTROL	B08e (1x)
BACKLIGHT-CONTROL	B08f (1x)
BACKLIGHT-CONTROL_RESET-P3	B05e (1x)
BACKLIGHT-CONTROL_RESET-P3	B07c (1x)
BACKLIGHT-CONTROL_RESET-P3	B08e (1x)
BACKLIGHT-CONTROL_RESET-P3	B08g (1x)
BIN-5V	B09a (3x)
BRX0-	B09a (1x)
BRX0-	B09b (1x)
BRX0+	B09a (1x)
BRX0+	B09b (1x)
BRX1-	B09a (1x)
BRX1-	B09b (1x)
BRX1+	B09a (1x)
BRX1+	B09b (1x)
BRX2-	B09a (1x)
BRX2-	B09b (1x)
BRX2+	B09a (1x)
BRX2+	B09b (1x)
BRXC-	B09a (1x)
BRXC-	B09b (1x)
BRXC+	B09a (1x)
BRXC+	B09b (1x)
BRX-DDC-SCL	B09a (1x)
BRX-DDC-SDA	B09a (1x)
BRX-HOTPLUG	B09a (2x)
B-VGA	B09b (1x)
B-VGA	B11a (1x)
CAS	B06b (2x)
CC-IN1	B15d (2x)
CC-IN2	B15d (2x)
CCLK	B08e (1x)
CCLK	B08g (3x)
CD1	B10a (3x)
CD2	B10a (3x)
CE1	B10a (2x)
CE2	B10a (2x)
CI-A(14)	B10a (1x)
CI-A(14)	B10c (1x)
CI-A(14)_MOCLKA-POD	B10a (2x)
CISEL-3V3	B10a (1x)
CISEL-3V3	B16a (1x)
CISEL-3V3-MAIN	B02b (1x)
CISEL-3V3-MAIN	B16a (1x)
CISEL-3V3-SUB	B03b (1x)
CISEL-3V3-SUB	B16a (1x)
CK	B06b (2x)
CKE	B06b (2x)
CKN	B06b (2x)
CLK-MPIF	B04b (1x)
CLK-MPIF	B04f (1x)
CLK-MPIF	B05a (1x)
C-MON-OUT	B07c (1x)
C-MON-OUT	B16c (1x)
COM-SND	B05e (2x)
CONF-DONE	B08b (1x)
CONF-DONE	B08c (1x)
CPROT-LR	B15a (3x)
CPROT-SW	B15b (3x)
CRX_POD-A(8)	B10a (2x)
CRX_POD-A(8)	B10b (1x)
CRX-POD	B10b (1x)
CSO-B	B08e (1x)
CSO-B	B08g (2x)
CTRL1-FPGA	B08c (1x)
CTRL1-FPGA	B08f (1x)
CTRL1-STBY	B05e (2x)
CTRL1-STBY	B08f (1x)
CTRL1-VIPER	B07c (1x)
CTRL1-VIPER	B08f (2x)
CTRL1-VIPER	B16e (1x)
CTRL2-FPGA	B08c (1x)
CTRL2-FPGA	B08f (1x)
CTRL2-VIPER	B07c (1x)
CTRL2-VIPER	B08f (1x)
CTRL3-FPGA	B08c (1x)
CTRL3-FPGA	B08f (1x)
CTRL3-STBY	B05e (2x)
CTRL3-STBY	B08f (1x)
CTRL4-FPGA	B08c (1x)
CTRL4-FPGA	B08f (1x)
CTRL4-P3	B08e (2x)
CTRL4-P3	B08f (1x)
CTRL4-STBY	B05e (1x)
CTRL4-STBY	B08f (1x)
CTRL4-VIPER	B07a (2x)
CTRL4-VIPER	B08c (1x)
CTRL4-VIPER	B08f (1x)
CTRL-DISP1	B08a (1x)
CTRL-DISP1	B08f (1x)
CTRL-DISP2	B08a (1x)
CTRL-DISP2	B08f (1x)
CTRL-DISP3	B08a (1x)
CTRL-DISP3	B08f (1x)
CTRL-DISP4	B08a (1x)
CTRL-DISP4	B08f (1x)
CTX_POD-A(4)	B10a (2x)
CTX_POD-A(4)	B10b (1x)
CTX-POD	B10b (1x)
CVBSOUTIF-MAIN	B04a (1x)
CVBSOUTIF-MAIN	B04c (1x)
CVBSOUTIF-SUB	B04e (1x)
CVBSOUTIF-SUB	B04g (1x)
CVBS-TER-OUT	B04c (1x)
CVBS-TER-OUT	B16c (1x)
DAC-CVBS	B07c (1x)
DAC-CVBS	B16c (1x)
DATA0	B08b (2x)
DATA0	B08c (1x)
DATA1N-MAIN	B04a (1x)
DATA1N-MAIN	B05a (1x)
DATA1N-SUB	B04e (1x)
DATA1N-SUB	B05a (1x)
DATA1P-MAIN	B04a (1x)
DATA1P-MAIN	B05a (1x)
DATA1P-SUB	B04e (1x)
DATA1P-SUB	B05a (1x)
DATA2N-MAIN	B04a (1x)
DATA2N-MAIN	B05a (1x)
DATA2N-SUB	B04e (1x)
DATA2N-SUB	B05a (1x)
DATA2P-MAIN	B04a (1x)
DATA2P-MAIN	B05a (1x)
DATA2P-SUB	B04e (1x)
DATA2P-SUB	B05a (1x)
DATA3N-MAIN	B04a (1x)
DATA3N-MAIN	B05a (1x)
DATA3N-SUB	B04e (1x)
DATA3N-SUB	B05a (1x)
DATA3P-MAIN	B04a (1x)
DATA3P-MAIN	B05a (1x)
DATA3P-SUB	B04e (1x)
DATA3P-SUB	B05a (1x)
DATDIR	B10a (1x)
DATDIR	B10c (1x)
DATOE	B10a (1x)
DATOE	B10c (1x)
DCLK	B08b (2x)
DCLK	B08c (1x)
DC-PROT-SW	B15a (1x)
DC-PROT-SW	B15b (1x)
DEBUG-BREAK	B05e (2x)
DEBUG-BREAK	B07a (1x)
DETECT-12V	B05e (2x)
DETECT-1V2	B05e (2x)
DETECT-2V5	B05e (2x)
DETECT-3V3	B05e (2x)
DETECT-5V	B05e (2x)
DETECT-8V6	B05e (2x)
DEV-CLRn	B08c (1x)
DONE	B08g (2x)
DQ(0)	B06b (2x)
DQ(0)	B07b (1x)
DQ(1)	B06b (2x)
DQ(1)	B07b (1x)
DQ(10)	B06b (2x)
DQ(10)	B07b (1x)
DQ(11)	B06b (2x)
DQ(11)	B07b (1x)
DQ(12)	B06b (2x)
DQ(12)	B07b (1x)
DQ(13)	B06b (2x)
DQ(13)	B07b (1x)
DQ(14)	B06b (2x)
DQ(14)	B07b (1x)
DQ(15)	B06b (2x)
DQ(15)	B07b (1x)
DQ(16)	B07b (1x)
DQ(17)	B07b (1x)
DQ(18)	B07b (1x)
DQ(19)	B07b (1x)
DQ(2)	B06b (2x)
DQ(2)	B07b (1x)
DQ(20)	B07b (1x)
DQ(21)	B07b (1x)
DQ(22)	B07b (1x)
DQ(23)	B07b (1x)
DQ(24)	B07b (1x)
DQ(25)	B07b (1x)
DQ(26)	B07b (1x)
DQ(27)	B07b (1x)
DQ(28)	B07b (1x)
DQ(29)	B07b (1x)
DQ(3)	B06b (2x)
DQ(3)	B07b (1x)
DQ(30)	B07b (1x)
DQ(31)	B07b (1x)
DQ(4)	B06b (2x)
DQ(4)	B07b (1x)
DQ(5)	B06b (2x)
DQ(5)	B07b (1x)
DQ(6)	B06b (2x)
DQ(6)	B07b (1x)
DQ(7)	B06b (2x)
DQ(7)	B07b (1x)
DQ(8)	B06b (2x)
DQ(8)	B07b (1x)
DQ(9)	B06b (2x)
DQ(9)	B07b (1x)
DQS0	B07b (2x)
DQS1	B07b (2x)
DQS2	B07b (2x)
DQS3	B07b (2x)
DRX_POD-A(9)	B10a (2x)
DRX_POD-A(9)	B10b (1x)
DRX-POD	B10b (1x)
DSNDL1	B04d (1x)
DSNDL1	B05a (1x)
DSNDL2	B04d (1x)
DSNDL2	B05a (1x)
DSNDR1	B04d (1x)
DSNDR1	B05a (1x)
DSNDR2	B04d (1x)
DSNDR2	B05a (1x)
DV1F-CLK	B05b (1x)
DV1F-CLK	B07c (1x)
DV1F-CLK	B10c (1x)
DV1F-DATA0	B05b (1x)
DV1F-DATA0	B07c (1x)
DV1F-DATA0	B10c (1x)
DV1F-DATA1	B05b (1x)
DV1F-DATA1	B07c (1x)
DV1F-DATA1	B10c (1x)
DV1F-DATA2	B05b (1x)
DV1F-DATA2	B07c (1x)
DV1F-DATA2	B10c (1x)
DV1F-DATA3	B05b (1x)
DV1F-DATA3	B07c (1x)
DV1F-DATA3	B10c (1x)
DV1F-DATA4	B05b (1x)
DV1F-DATA4	B07c (1x)
DV1F-DATA4	B10c (1x)
DV1F-DATA5	B05b (1x)
DV1F-DATA5	B07c (1x)
DV1F-DATA5	B10c (1x)
DV1F-DATA6	B05b (1x)
DV1F-DATA6	B07c (1x)
DV1F-DATA6	B10c (1x)
DV1F-DATA7	B05b (1x)
DV1F-DATA7	B07c (1x)
DV1F-DATA7	B10c (1x)
DV1F-DATA8_ERR	B05b (1x)
DV1F-DATA8_ERR	B07c (1x)
DV1F-DATA9_SOP	B05b (1x)
DV1F-DATA9_SOP	B07c (1x)
DV1F-DATA9_SOP	B10c (1x)
DV1F-VALID	B05b (1x)
DV1F-VALID	B07c (2x)
DV1F-VALID	B10c (1x)
DV2A-CLK	B05b (1x)
DV2A-CLK	B07c (1x)
DV2A-CLK	B14a (2x)
DV2A-DATA0_SOP	B05b (1x)
DV2A-DATA0_SOP	B07c (1x)
DV2A-DATA0_SOP	B14a (1x)
DV2A-DATA1_ERR	B05b (1x)
DV2A-DATA1_ERR	B07c (1x)
DV2A-DATA1_ERR	B14a (1x)
DV2A-DATA2_0	B14a (1x)
DV2A-DATA3_1	B14a (1x)
DV2A-DATA4_2	B05b (1x)
DV2A-DATA4_2	B07c (1x)
DV2A-DATA4_2	B14a (1x)
DV2A-DATA5_3	B05b (1x)
DV2A-DATA5_3	B07c (1x)
DV2A-DATA5_3	B14a (1x)
DV2A-DATA6_4	B05b (1x)
DV2A-DATA6_4	B07c (1x)
DV2A-DATA6_4	B14a (1x)
DV2A-DATA7_5	B05b (1x)
DV2A-DATA7_5	B07c (1x)
DV2A-DATA7_5	B14a (1x)
DV2A-DATA8_6	B05b (1x)
DV2A-DATA8_6	B07c (1x)
DV2A-DATA8_6	B14a (1x)
DV2A-DATA9_7	B05b (1x)
DV2A-DATA9_7	B07c (1x)
DV2A-DATA9_7	B14a (1x)
DV2A-VALID	B05b (1x)
DV2A-VALID	B07c (2x)
DV2A-VALID	B14a (1x)
DV3F-CLK	B05b (1x)
DV3F-CLK	B07c (1x)
DV3F-DATA0_SOP	B05b (1x)
DV3F-DATA0_SOP	B07c (1x)
DV3F-DATA1_ERR	B05b (1x)
DV3F-DATA1_ERR	B07c (1x)
DV3F-DATA2_0	B05b (1x)
DV3F-DATA2_0	B07c (1x)
DV3F-DATA3_1	B05b (1x)
DV3F-DATA3_1	B07c (1x)
DV3F-DATA4_2	B05b (1x)
DV3F-DATA4_2	B07c (1x)
DV3F-DATA5_3	B05b (1x)
DV3F-DATA5_3	B07c (1x)
DV3F-DATA6_4	B05b (1x)
DV3F-DATA6_4	B07c (1x)
DV3F-DATA7_5	B05b (1x)
DV3F-DATA7_5	B07c (1x)
DV3F-DATA8_6	B05b (1x)
DV3F-DATA8_6	B07c (1x)
DV3F-DATA9_7	B05b (1x)
DV3F-DATA9_7	B07c (1x)
DV3F-VALID	B05b (1x)
DV3F-VALID	B07c (2x)
DV4-CLK	B05b (1x)
DV4-CLK	B09b (1x)
DV4-DATA0_SOP	B05b (1x)
DV4-DATA0_SOP	B09b (1x)
DV4-DATA1_ERR	B05b (1x)
DV4-DATA1_ERR	B09b (1x)
DV4-DATA2_0	B05b (1x)
DV4-DATA2_0	B09b (1x)
DV4-DATA3_1	B05b (1x)
DV4-DATA3_1	B09b (1x)
DV4-DATA4_2	B05b (1x)
DV4-DATA4_2	B09b (1x)
DV4-DATA5_3	B05b (1x)
DV4-DATA5_3	B09b (1x)
DV4-DATA6_4	B05b (1x)
DV4-DATA6_4	B09b (1x)
DV4-DATA7_5	B05b (1x)
DV4-DATA7_5	B09b (1x)
DV4-DATA8_6	B05b (1x)
DV4-DATA8_6	B09b (1x)
DV4-DATA9_7	B05b (1x)
DV4-DATA9_7	B09b (1x)
DV4-VALID	B05b (1x)
DV4-VALID	B09b (1x)
DV5-DATA0_SOP	B05b (1x)
DV5-DATA0_SOP	B09b (1x)
DV5-DATA1_ERR	B05b (1x)
DV5-DATA1_ERR	B09b (1x)
DV5-DATA2_0	B05b (1x)
DV5-DATA2_0	B09b (1x)
DV5-DATA3_1	B05b (1x)
DV5-DATA3_1	B09b (1x)
DV5-DATA4_2	B05b (1x)
DV5-DATA4_2	B09b (1x)
DV5-DATA5_3	B05b (1x)
DV5-DATA5_3	B09b (1x)
DV5-DATA6_4	B05b (1x)
DV5-DATA6_4	B09b (1x)
DV5-DATA7_5	B05b (1x)
DV5-DATA7_5	B09b (1x)
DV5-DATA8_6	B05b (1x)
DV5-DATA8_6	B09b (1x)
DV5-DATA9_7	B05b (1x)
DV5-DATA9_7	B09b (1x)
DV-BOUT-0	B07c (1x)
DV-BOUT-0	B08a (1x)
DV-BOUT-0	B08c (1x)
DV-BOUT-0	B08g (1x)
DV-BOUT-0	B16f (1x)
DV-BOUT-1	B07c (1x)
DV-BOUT-1	B08a (1x)
DV-BOUT-1	B08c (1x)
DV-BOUT-1	B08g (1x)
DV-BOUT-1	B16f (1x)
DV-BOUT-2	B07c (1x)
DV-BOUT-2	B08a (1x)
DV-BOUT-2	B08c (1x)
DV-BOUT-2	B08g (1x)
DV-BOUT-2	B16f (1x)
DV-BOUT-3	B07c (1x)
DV-BOUT-3	B08a (1x)
DV-BOUT-3	B08c (1x)
DV-BOUT-3	B08g (1x)
DV-BOUT-3	B16f (1x)
DV-BOUT-4	B07c (1x)
DV-BOUT-4	B08a (1x)
DV-BOUT-4	B08c (1x)
DV-BOUT-4	B08g (1x)
DV-BOUT-4	B16f (1x)
DV-BOUT-5	B07c (1x)
DV-BOUT-5	B08a (1x)
DV-BOUT-5	B08c (1x)
DV-BOUT-5	B08g (1x)
DV-BOUT-5	B16f (1x)
DV-BOUT-6	B07c (1x)
DV-BOUT-6	B08a (1x)
DV-BOUT-6	B08c (1x)
DV-BOUT-6	B08g (1x)
DV-BOUT-6	B16f (1x)
DV-BOUT-7	B07c (1x)
DV-BOUT-7	B08a (1x)
DV-BOUT-7	B08c (1x)
DV-BOUT-7	B08g (1x)
DV-BOUT-7	B16f (1x)
DV-BOUT-8	B07c (1x)
DV-BOUT-8	B08a (1x)
DV-BOUT-8	B08c (1x)
DV-BOUT-8	B08g (1x)
DV-BOUT-8	B16f (1x)
DV-BOUT-9	B07c (1x)
DV-BOUT-9	B08a (1x)
DV-BOUT-9	B08c (1x)
DV-BOUT-9	B08g (1x)
DV-BOUT-9	B16f (1x)
DV-CLK-PLL	B08c (3x)
DV-FREF	B05b (1x)
DV-FREF	B09b (1x)
DV-GOUT-0	B07c (1x)
DV-GOUT-0	B08a (1x)
DV-GOUT-0	B08c (1x)
DV-GOUT-0	B08g (1x)
DV-GOUT-0	B16f (1x)
DV-GOUT-1	B07c (1x)
DV-GOUT-1	B08a (1x)
DV-GOUT-1	B08c (1x)
DV-GOUT-1	B08g (1x)
DV-GOUT-1	B16f (1x)
DV-GOUT-2	B07c (1x)
DV-GOUT-2	B08a (1x)
DV-GOUT-2	B08c (1x)
DV-GOUT-2	B08g (1x)
DV-GOUT-2	B16f (1x)
DV-GOUT-3	B07c (1x)
DV-GOUT-3	B08a (1x)
DV-GOUT-3	B08c (1x)
DV-GOUT-3	B08g (1x)
DV-GOUT-3	B16f (1x)
DV-GOUT-4	B07c (1x)
DV-GOUT-4	B08a (1x)
DV-GOUT-4	B08c (1x)
DV-GOUT-4	B08g (1x)
DV-GOUT-4	B16f (1x)
DV-GOUT-5	B07c (1x)
DV-GOUT-5	B08a (1x)
DV-GOUT-5	B08c (1x)
DV-GOUT-5	B08g (1x)
DV-GOUT-5	B16f (1x)
DV-GOUT-6	B07c (1x)
DV-GOUT-6	B08a (1x)
DV-GOUT-6	B08c (1x)
DV-GOUT-6	B08g (1x)
DV-GOUT-6	B16f (1x)
DV-GOUT-7	B07c (1x)
DV-GOUT-7	B08a (1x)
DV-GOUT-7	B08c (1x)
DV-GOUT-7	B08g (1x)
DV-GOUT-7	B16f (1x)
DV-GOUT-8	B07c (1x)
DV-GOUT-8	B08a (1x)
DV-GOUT-8	B08c (1x)
DV-GOUT-8	B08g (1x)
DV-GOUT-8	B16f (1x)
DV-GOUT-9	B07c (1x)
DV-GOUT-9	B08a (1x)
DV-GOUT-9	B08c (1x)
DV-GOUT-9	B08g (1x)
DV-GOUT-9	B16f (1x)
DV-HREF	B05b (1x)
DV-HREF	B09b (2x)
DV-OUT-CLK	B07c (1x)
DV-OUT-CLK	B08a (1x)
DV-OUT-CLK	B08c (1x)
DV-OUT-CLK	B08g (1x)
DV-OUT-CLK	B16f (1x)
DV-OUT-DE	B07c (1x)
DV-OUT-DE	B08a (1x)
DV-OUT-DE	B08c (1x)
DV-OUT-DE	B08g (1x)
DV-OUT-DE	B16f (1x)
DV-OUT-FF	B07c (1x)
DV-OUT-FF	B08a (1x)
DV-OUT-FF	B08c (1x)
DV-OUT-FF	B08g (1x)
DV-OUT-FF	B16f (1x)
DV-OUT-HS	B07c (1x)
DV-OUT-HS	B08a (1x)
DV-OUT-HS	B08c (1x)
DV-OUT-HS	B08g (1x)
DV-OUT-HS	B16f (1x)
DV-OUT-VS	B07c (1x)
DV-OUT-VS	B08a (1x)
DV-OUT-VS	B08c (1x)
DV-OUT-VS	B08g (1x)
DV-OUT-VS	B16e (1x)
DV-OUT-VS	B16f (1x)
DV-ROUT-0	B07c (1x)
DV-ROUT-0	B08a (1x)
DV-ROUT-0	B08c (1x)
DV-ROUT-0	B08g (1x)
DV-ROUT-0	B16f (1x)
DV-ROUT-1	B07c (1x)
DV-ROUT-1	B08a (1x)
DV-ROUT-1	B08c (1x)
DV-ROUT-1	B08g (1x)
DV-ROUT-1	B16f (1x)
DV-ROUT-2	B07c (1x)
DV-ROUT-2	B08a (1x)
DV-ROUT-2	B08c (1x)
DV-ROUT-2	B08g (1x)
DV-ROUT-2	B16f (1x)
DV-ROUT-3	B07c (1x)
DV-ROUT-3	B08a (1x)
DV-ROUT-3	B08c (1x)
DV-ROUT-3	B08g (1x)
DV-ROUT-3	B16f (1x)
DV-ROUT-4	B07c (1x)
DV-ROUT-4	B08a (1x)
DV-ROUT-4	B08c (1x)
DV-ROUT-4	B08g (1x)
DV-ROUT-4	B16f (1x)
DV-ROUT-5	B07c (1x)
DV-ROUT-5	B08a (1x)
DV-ROUT-5	B08c (1x)
DV-ROUT-5	B08g (1x)
DV-ROUT-5	B16f (1x)
DV-ROUT-6	B07c (1x)
DV-ROUT-6	B08a (1x)
DV-ROUT-6	B08c (1x)
DV-ROUT-6	B08g (1x)
DV-ROUT-6	B16f (1x)
DV-ROUT-7	B07c (1x)
DV-ROUT-7	B08a (1x)
DV-ROUT-7	B08c (1x)
DV-ROUT-7	B08g (1x)
DV-ROUT-7	B16f (1x)
DV-ROUT-8	B07c (1x)
DV-ROUT-8	B08a (1x)
DV-ROUT-8	B08c (1x)
DV-ROUT-8	B08g (1x)
DV-ROUT-8	B16f (1x)
DV-ROUT-9	B07c (1x)
DV-ROUT-9	B08a (1x)
DV-ROUT-9	B08c (1x)
DV-ROUT-9	B08g (1x)
DV-ROUT-9	B16f (1x)
DV-VREF	B05b (1x)
DV-VREF	B09b (2x)
EA	B05e (2x)
EJTAG-DETECT	B05e (2x)
EJTAG-DETECT	B12b (1x)
EJTAG-TCK	B07a (1x)
EJTAG-TCK	B12b (1x)
EJTAG-TDI	B07a (2x)
EJTAG-TDI	B12b (1x)
EJTAG-TDO	B07a (1x)
EJTAG-TDO	B12b (1x)
EJTAG-TMS	B07a (1x)
EJTAG-TMS	B12b (1x)
ENABLE-1V2	B01a (1x)
ENABLE-1V2	B05e (2x)
ENABLE-2V5	B01a (1x)
ENABLE-2V5	B05e (2x)
ENABLE-3V3	B01a (1x)
ENABLE-3V3	B01c (1x)
ENABLE-3V3	B05e (2x)
ENABLE-5V	B01c (2x)
ENABLE-5V	B08f (1x)
ETX_POD-A(6)	B10a (1x)
ETX_POD-A(6)	B10b (3x)
ETX-POD	B10b (1x)
FE-CLK	B10a (1x)
FE-CLK	B16a (1x)
FE-DATA0	B10a (1x)
FE-DATA0	B16a (1x)
FE-DATA1	B10a (1x)
FE-DATA1	B16a (1x)
FE-DATA2	B10a (1x)
FE-DATA2	B16a (1x)
FE-DATA3	B10a (1x)
FE-DATA3	B16a (1x)
FE-DATA4	B10a (1x)
FE-DATA4	B16a (1x)
FE-DATA5	B10a (1x)
FE-DATA5	B16a (1x)
FE-DATA6	B10a (1x)
FE-DATA6	B16a (1x)
FE-DATA7	B10a (1x)
FE-DATA7	B16a (1x)
FEEDBACK	B15a (3x)
FEEDBACK+SUB	B15b (2x)
FEEDBACK-LR	B15a (2x)
FEEDBACK-RL	B15a (2x)
FEEDBACK-SUB	B15b (2x)
FEEDBACK-SW	B15b (3x)
FE-MAIN-CLK	B02b (1x)
FE-MAIN-CLK	B16a (1x)
FE-MAIN-DATA0	B02b (1x)
FE-MAIN-DATA0	B16a (1x)
FE-MAIN-DATA1	B02b (1x)
FE-MAIN-DATA1	B16a (1x)
FE-MAIN-DATA2	B02b (1x)
FE-MAIN-DATA2	B16a (1x)
FE-MAIN-DATA3	B02b (1x)
FE-MAIN-DATA3	B16a (1x)
FE-MAIN-DATA4	B02b (1x)
FE-MAIN-DATA4	B16a (1x)
FE-MAIN-DATA5	B02b (1x)
FE-MAIN-DATA5	B16a (1x)
FE-MAIN-DATA6	B02b (1x)
FE-MAIN-DATA6	B16a (1x)
FE-MAIN-DATA7	B02b (1x)
FE-MAIN-DATA7	B16a (1x)
FE-MAIN-SOP	B02b (1x)
FE-MAIN-SOP	B16a (1x)
FE-MAIN-VALID	B02b (1x)
FE-MAIN-VALID	B16a (1x)
FE-SOP	B10a (1x)
FE-SOP	B16a (1x)
FE-SUB-CLK	B03b (1x)
FE-SUB-CLK	B16a (1x)
FE-SUB-DATA0	B03b (1x)
FE-SUB-DATA0	B16a (1x)
FE-SUB-DATA1	B03b (1x)
FE-SUB-DATA1	B16a (1x)
FE-SUB-DATA2	B03b (1x)
FE-SUB-DATA2	B16a (1x)
FE-SUB-DATA3	B03b (1x)
FE-SUB-DATA3	B16a (1x)
FE-SUB-DATA4	B03b (1x)
FE-SUB-DATA4	B16a (1x)
FE-SUB-DATA5	B03b (1x)
FE-SUB-DATA5	B16a (1x)
FE-SUB-DATA6	B03b (1x)
FE-SUB-DATA6	B16a (1x)
FE-SUB-DATA7	B03b (1x)
FE-SUB-DATA7	B16a (1x)
FE-SUB-SOP	B03b (1x)
FE-SUB-SOP	B16a (1x)
FE-SUB-VALID	B03b (1x)
FE-SUB-VALID	B16a (1x)
FE-VALID	B10a (1x)
FE-VALID	B16a (1x)
FPGA-TCK	B08g (1x)
FPGA-TCK	B16d (2x)
FPGA-TDI	B08g (1x)
FPGA-TDI	B16d (2x)
FPGA-TDO	B08g (1x)
FPGA-TDO	B16d (2x)
FPGA-TMS	B08g (1x)
FPGA-TMS	B16d (2x)
FREF-TUN-MAIN	B02a (1x)
FREF-TUN-MAIN	B02b (1x)
FREF-TUN-SUB	B03a (1x)
FREF-TUN-SUB	B03b (1x)
FRONT_C	B04a (1x)
FRONT_C	B04e (1x)
FRONT_C	B16b (1x)
FRONT_Y-CVBS	B04a (1x)
FRONT_Y-CVBS	B04e (1x)
FRONT_Y-CVBS	B16b (1x)
FRONT-DETECT	B05e (2x)
GLINK-IR-OUT	B07a (1x)
GLINK-IR-OUT	B11a (1x)
GLINK-RXD	B07a (1x)
GLINK-RXD	B11a (1x)
GLINK-RXD	B12b (1x)
GLINK-TXD	B07a (1x)
GLINK-TXD	B11a (1x)
GLINK-TXD	B12b (1x)
GND1V2	B01a (7x)
GND2V8	B01a (7x)
GND3V3	B01a (7x)
GND5V	B01c (7x)
GND-D	B04a (2x)
GND-D	B15a (56x)
GND-D	B15b (38x)
GND-D	B15c (8x)
GND-RX	B08e (5x)
GND-TX	B08e (6x)
G-VGA	B09b (1x)
G-VGA	B11a (1x)
HDMI-COAST	B07a (1x)
HDMI-COAST	B09b (1x)
HOLD	B08e (1x)
HOLD	B08g (2x)
HPD-HIRATE	B07a (1x)
HPD-HIRATE	B09a (2x)
H-SYNC-VGA	B09b (1x)
H-SYNC-VGA	B11a (1x)
HV-PRM-MAIN	B04a (1x)
HV-PRM-MAIN	B05a (1x)
HV-PRM-SUB	B04e (1x)
HV-PRM-SUB	B05a (1x)
I2S-BCLK-AVIP	B05a (1x)
I2S-BCLK-AVIP	B07c (1x)
I2S-BCLK-MAIN	B05a (1x)
I2S-BCLK-MAIN	B07c (1x)
I2S-BCLK-SUB	B05a (1x)
I2S-BCLK-SUB	B07c (1x)
I2S-MAIN-D	B05a (1x)
I2S-MAIN-D	B07c (1x)
I2S-MAIN-ND	B05a (1x)
I2S-MAIN-ND	B07c (1x)
I2S-MCH-CSW	B05a (1x)
I2S-MCH-CSW	B07c (1x)
I2S-MCH-LR	B05a (1x)
I2S-MCH-LR	B07c (1x)
I2S-MCH-SLR	B05a (1x)
I2S-MCH-SLR	B07c (1x)
I2S-SUB-D	B05a (1x)
I2S-SUB-D	B07c (1x)
I2S-SUB-ND	B05a (1x)
I2S-SUB-ND	B07c (1x)
I2S-WS-AVIP	B05a (1x)
I2S-WS-AVIP	B07c (1x)
I2S-WS-MAIN	B05a (1x)
I2S-WS-MAIN	B07c (1x)
I2S-WS-SUB	B05a (1x)
I2S-WS-SUB	B07c (1x)
IF-TER1	B04g (1x)
IF-TER1	B16a (1x)
IF-TER2	B04c (1x)
IF-TER2	B16a (1x)
IF-TER-MAIN	B02a (1x)
IF-TER-MAIN	B16a (1x)
IF-TER-SUB	B03a (1x)
IF-TER-SUB	B16a (1x)
INIT	B08g (2x)
INV-MUTE	B15a (2x)
INV-MUTE	B15b (1x)
IO-EXP-1	B05e (2x)
IO-EXP-1	B11b (1x)
IO-EXP-2	B05e (2x)
IO-EXP-2	B11b (1x)
IORD	B10a (2x)
IOWR	B10a (2x)
IRQ-AVIP	B05e (1x)
IRQ-AVIP	B07a (1x)
IRQ-AVIP-SUB	B05e (1x)
IRQ-AVIP-SUB	B07a (1x)
IRQ-ETHERNET	B07a (2x)
IRQ-ETHERNET	B13 (1x)
IRQ-FE-MAIN	B02b (1x)
IRQ-FE-MAIN	B07a (1x)
IRQ-FE-MAIN	B16a (1x)
IRQ-FE-SUB	B03b (1x)
IRQ-FE-SUB	B16a (1x)
IRQ-HD1	B05e (1x)
IRQ-HD1	B07a (2x)
IRQ-HD2	B05e (1x)
IRQ-HD2	B07a (2x)
IRQ-HIRATE	B05e (1x)
IRQ-HIRATE	B07a (2x)
IRQ-HIRATE	B09b (1x)
IRQ-IEEE1394	B07a (2x)
IRQ-IEEE1394	B14a (2x)
IRQ-MAIN	B07a (2x)
IRQ-MPIF	B04b (1x)
IRQ-MPIF	B07a (1x)
IRQ-MPIF-SUB	B04f (1x)
IRQ-MPIF-SUB	B07a (1x)
IRQ-POD	B07a (2x)
IRQ-POD	B10a (1x)
IRQ-SPIDER	B06a (2x)
IRQ-SPIDER	B07a (1x)
IRQ-SUB	B07a (2x)
IRQ-USB20	B07a (2x)
IRQ-USB20	B12a (2x)
ITX_POD-A(5)	B10a (1x)
ITX_POD-A(5)	B10b (3x)
ITX-POD	B10b (1x)
JTAG-TCK	B02b (1x)
JTAG-TCK	B03b (1x)
JTAG-TCK	B05e (1x)
JTAG-TCK	B06a (1x)
JTAG-TCK	B07a (3x)
JTAG-TCK	B08e (1x)
JTAG-TCK	B09b (1x)
JTAG-TCK	B10a (1x)
JTAG-TD-CON-VIPER	B07a (3x)
JTAG-TD-DVBMAIN-DVBSUB	B02b (1x)
JTAG-TD-DVBMAIN-DVBSUB	B03b (1x)
JTAG-TD-DVBSUB-HDMI	B03b (1x)
JTAG-TD-DVBSUB-HDMI	B09b (1x)
JTAG-TD-HDMI-POD	B09b (1x)
JTAG-TD-HDMI-POD	B10a (1x)
JTAG-TD-P3-SPIDER	B06a (1x)
JTAG-TD-P3-SPIDER	B08e (2x)
JTAG-TD-PNX2015-DVBMAIN	B02b (1x)
JTAG-TD-PNX2015-DVBMAIN	B05e (1x)
JTAG-TD-POD-CON	B07a (1x)
JTAG-TD-POD-CON	B10a (1x)
JTAG-TD-SPIDER-PNX2015	B05e (1x)
JTAG-TD-SPIDER-PNX2015	B06a (1x)
JTAG-TD-VIPER-P3	B07a (2x)
JTAG-TD-VIPER-P3	B08e (2x)
JTAG-TMS	B02b (1x)
JTAG-TMS	B03b (1x)
JTAG-TMS	B05e (1x)
JTAG-TMS	B06a (1x)
JTAG-TMS	B07a (3x)
JTAG-TMS	B08e (1x)
JTAG-TMS	B09b (1x)
JTAG-TMS	B10a (1x)
JTAG-TRST	B02b (1x)
JTAG-TRST	B03b (1x)
JTAG-TRST	B05e (1x)
JTAG-TRST	B06a (1x)
JTAG-TRST	B07a (2x)
JTAG-TRST	B08e (1x)
JTAG-TRST	B09b (1x)
JTAG-TRST	B10a (1x)
JTAG-TRST	B12b (1x)
KEYBOARD	B05e (2x)
KEYBOARD	B16b (1x)
LAMP-ON	B05e (2x)
LAMP-ON	B08f (1x)
LAMP-ON-OUT	B08f (1x)
LAMP-ON-OUT	B16e (1x)
LCD-PWR-ON	B08c (1x)
LCD-PWR-ON	B08f (1x)
LDQS	B06b (2x)
LED1	B05e (1x)
LED1	B08b (1x)
LED1	B08c (1x)
LED1	B16b (1x)
LED1-3V3	B05e (3x)
LED1B	B08b (1x)
LED1B	B08g (1x)
LED2	B05e (1x)
LED2	B08b (1x)
LED2	B08c (1x)
LED2	B16b (1x)
LED2-3V3	B05e (3x)
LED2B	B08b (1x)
LED2B	B08g (1x)
LED3	B08b (1x)
LED3	B08c (1x)
LED3B	B08b (1x)
LED3B	B08g (1x)
LED4	B08b (1x)
LED4	B08c (1x)
LED4B	B08b (1x)
LED4B	B08g (1x)
LED5	B08b (1x)
LED5	B08c (1x)
LED5B	B08b (1x)
LED5B	B08g (1x)
LEFT-OUTPUT	B15a (2x)
LEFT-OUTPUT	B15c (1x)
LIGHT-SENSOR	B05e (1x)
LIGHT-SENSOR	B16b (1x)
LINKON	B14a (2x)
LVDS-3V3	B05f (2x)
LVDS-PLL-3V3	B05f (2x)
M135-CLK	B07a (1x)
M135-CLK	B09b (1x)
M27-CLK	B05a (1x)
M27-CLK	B07a (1x)
M27-DISP	B05a (1x)
M27-DISP	B08c (2x)
M27-DISP	B08g (1x)
M27-PNX	B05a (1x)
M27-PNX	B05e (1x)
M27-POD	B05a (1x)
M27-POD	B10a (1x)
MDIA(0)	B10a (2x)
MDIA(1)	B10a (2x)
MDIA(2)	B10a (2x)
MDIA(3)	B10a (2x)
MDIA(4)	B10a (2x)
MDIA(5)	B10a (2x)
MDIA(6)	B10a (2x)
MDIA(7)	B10a (2x)
MDOA(0)	B10a (3x)
MDOA(1)	B10a (3x)
MDOA(2)	B10a (3x)
MDOA(3)	B10a (3x)
MDOA(4)	B10a (3x)
MDOA(5)	B10a (3x)
MDOA(6)	B10a (3x)
MDOA(7)	B10a (3x)
MICLKA	B10a (2x)
MISO	B08e (1x)
MISO	B08g (3x)
MISTRTA	B10a (2x)
MIVALA	B10a (2x)
MM_A0	B07b (3x)
MM_A1	B07b (3x)
MM_A10	B07b (3x)
MM_A11	B07b (3x)
MM_A12	B07b (3x)
MM_A2	B07b (3x)
MM_A3	B07b (3x)
MM_A4	B07b (3x)
MM_A5	B07b (3x)
MM_A6	B07b (3x)
MM_A7	B07b (3x)
MM_A8	B07b (3x)
MM_A9	B07b (3x)
MM_BA0	B07b (3x)
MM_BA1	B07b (3x)
MM_CAS	B07b (3x)
MM_CKE	B07b (3x)
MM_CLK_N	B07b (3x)
MM_CLK_P	B07b (3x)
MM_CS0	B07b (3x)
MM_CS1	B07b (1x)
MM_DATA_0	B07b (1x)
MM_DATA_1	B07b (1x)
MM_DATA_10	B07b (1x)
MM_DATA_11	B07b (1x)
MM_DATA_12	B07b (1x)
MM_DATA_13	B07b (1x)
MM_DATA_14	B07b (1x)
MM_DATA_15	B07b (1x)
MM_DATA_16	B07b (2x)
MM_DATA_17	B07b (2x)
MM_DATA_18	B07b (2x)
MM_DATA_19	B07b (2x)
MM_DATA_2	B07b (1x)
MM_DATA_20	B07b (2x)
MM_DATA_21	B07b (2x)
MM_DATA_22	B07b (2x)
MM_DATA_23	B07b (2x)
MM_DATA_24	B07b (2x)
MM_DATA_25	B07b (2x)
MM_DATA_26	B07b (2x)
MM_DATA_27	B07b (2x)
MM_DATA_28	B07b (2x)
MM_DATA_29	B07b (2x)
MM_DATA_3	B07b (1x)
MM_DATA_30	B07b (2x)
MM_DATA_31	B07b (2x)
MM_DATA_4	B07b (1x)
MM_DATA_5	B07b (1x)
MM_DATA_6	B07b (1x)
MM_DATA_7	B07b (1x)
MM_DATA_8	B07b (1x)
MM_DATA_9	B07b (1x)
MM_DQM_0	B07b (2x)
MM_DQM_1	B07b (2x)
MM_DQM_2	B07b (2x)
MM_DQM_3	B07b (2x)
MM_DQS0	B07b (2x)
MM_DQS1	B07b (2x)
MM_DQS2	B07b (2x)
MM_DQS3	B07b (2x)
MM_RAS	B07b (3x)
MM_WE	B07b (3x)
MOCLKA	B10a (3x)
MOSI	B08e (1x)
MOSI	B08g (2x)
MOSTRTA	B10a (3x)
MOVALA	B10a (3x)
MUTE	B15a (3x)
MUTE	B15b (2x)

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SSB: SRP Overview Part 2

Net Name	Diagram
NAND-AD0	B10d (4x)
NAND-AD1	B10d (4x)
NAND-AD2	B10d (4x)
NAND-AD3	B10d (3x)
NAND-AD4	B10d (4x)
NAND-AD5	B10d (3x)
NAND-AD6	B10d (4x)
NAND-AD7	B10d (4x)
nCONFIG	B08b (1x)
nCONFIG	B08c (1x)
nCONFIG	B08g (1x)
nCSO	B08b (2x)
nCSO	B08c (1x)
N-IF-MAIN	B02a (1x)
N-IF-MAIN	B02b (1x)
N-IF-SUB	B03a (1x)
N-IF-SUB	B03b (1x)
OE	B10a (2x)
ON-MODE	B05e (8x)
ON-MODE	B08f (4x)
ON-MODE	B16d (8x)
OUT	B15b (1x)
OUT	B15d (2x)
OUTN	B15b (1x)
OUTN	B15d (1x)
P0.0	B05e (1x)
P0.1	B05e (1x)
P0.2	B05e (1x)
P0.3	B05e (1x)
P0.4	B05e (1x)
P0.5	B05e (1x)
P0.6	B05e (1x)
P0.7	B05e (1x)
P2.0	B05e (1x)
P2.1	B05e (1x)
P2.2	B05e (1x)
P2.3	B05e (1x)
P2.4	B05e (1x)
P2.5	B05e (1x)
P2.6	B05e (1x)
P2.7	B05e (1x)
P50	B05e (1x)
P50	B16c (1x)
P50-3V3	B05e (3x)
P50-HDMI	B05e (1x)
P50-HDMI	B09a (2x)
P50-HDMI-3V3	B05e (3x)
PARX-DDC-SCL	B09a (1x)
PARX-DDC-SCL	B09b (1x)
PARX-DDC-SDA	B09a (1x)
PARX-DDC-SDA	B09b (1x)
PBRX-DDC-SCL	B09a (1x)
PBRX-DDC-SCL	B09b (1x)
PBRX-DDC-SDA	B09a (1x)
PBRX-DDC-SDA	B09b (1x)
PCI-AD0	B07a (1x)
PCI-AD0	B12a (1x)
PCI-AD0	B12b (1x)
PCI-AD0	B13 (1x)
PCI-AD0	B14b (2x)
PCI-AD1	B07a (1x)
PCI-AD1	B12a (1x)
PCI-AD1	B12b (1x)
PCI-AD1	B13 (1x)
PCI-AD1	B14b (2x)
PCI-AD10	B07a (1x)
PCI-AD10	B12a (1x)
PCI-AD10	B12b (1x)
PCI-AD10	B13 (1x)
PCI-AD10	B14b (2x)
PCI-AD11	B07a (1x)
PCI-AD11	B12a (1x)
PCI-AD11	B12b (1x)
PCI-AD11	B13 (1x)
PCI-AD11	B14b (2x)
PCI-AD12	B07a (1x)
PCI-AD12	B12a (1x)
PCI-AD12	B12b (1x)
PCI-AD12	B13 (1x)
PCI-AD12	B14b (2x)
PCI-AD13	B07a (1x)
PCI-AD13	B12a (1x)
PCI-AD13	B12b (1x)
PCI-AD13	B13 (1x)
PCI-AD13	B14b (2x)
PCI-AD14	B07a (1x)
PCI-AD14	B12a (1x)
PCI-AD14	B12b (1x)
PCI-AD14	B13 (1x)
PCI-AD14	B14b (2x)
PCI-AD15	B07a (1x)
PCI-AD15	B12a (1x)
PCI-AD15	B12b (1x)
PCI-AD15	B13 (1x)
PCI-AD15	B14b (2x)
PCI-AD16	B07a (2x)
PCI-AD16	B12a (1x)
PCI-AD16	B12b (1x)
PCI-AD16	B13 (1x)
PCI-AD16	B14b (2x)
PCI-AD17	B07a (1x)
PCI-AD17	B12a (1x)
PCI-AD17	B12b (1x)
PCI-AD17	B13 (1x)
PCI-AD17	B14b (2x)
PCI-AD18	B07a (1x)
PCI-AD18	B12a (1x)
PCI-AD18	B12b (1x)
PCI-AD18	B13 (1x)
PCI-AD18	B14b (2x)
PCI-AD19	B07a (1x)
PCI-AD19	B12a (1x)
PCI-AD19	B12b (1x)
PCI-AD19	B13 (1x)
PCI-AD19	B14b (2x)
PCI-AD2	B07a (1x)
PCI-AD2	B12a (1x)
PCI-AD2	B12b (1x)
PCI-AD2	B13 (1x)
PCI-AD2	B14b (1x)
PCI-AD20	B07a (1x)
PCI-AD20	B12a (1x)
PCI-AD20	B12b (1x)
PCI-AD20	B13 (1x)
PCI-AD20	B14b (2x)
PCI-AD21	B07a (1x)
PCI-AD21	B12a (1x)
PCI-AD21	B12b (1x)
PCI-AD21	B13 (1x)
PCI-AD21	B14b (2x)
PCI-AD22	B07a (1x)
PCI-AD22	B12a (2x)
PCI-AD22	B12b (1x)
PCI-AD22	B13 (1x)
PCI-AD22	B14b (2x)
PCI-AD23	B07a (1x)
PCI-AD23	B12a (1x)
PCI-AD23	B12b (1x)
PCI-AD23	B13 (2x)
PCI-AD23	B14b (2x)
PCI-AD24	B07a (1x)
PCI-AD24	B10c (1x)
PCI-AD24	B10d (2x)
PCI-AD24	B12a (1x)
PCI-AD24	B12b (1x)
PCI-AD24	B13 (1x)
PCI-AD24	B14b (2x)
PCI-AD25	B07a (1x)
PCI-AD25	B10c (1x)
PCI-AD25	B10d (2x)
PCI-AD25	B12a (1x)
PCI-AD25	B12b (1x)
PCI-AD25	B13 (1x)
PCI-AD25	B14b (2x)
PCI-AD26	B07a (1x)
PCI-AD26	B10c (1x)
PCI-AD26	B10d (2x)
PCI-AD26	B12a (1x)
PCI-AD26	B12b (1x)
PCI-AD26	B13 (1x)
PCI-AD26	B14b (2x)
PCI-AD27	B07a (1x)
PCI-AD27	B10c (1x)
PCI-AD27	B10d (2x)
PCI-AD27	B12a (1x)
PCI-AD27	B12b (1x)
PCI-AD27	B13 (1x)
PCI-AD27	B14b (2x)
PCI-AD28	B07a (1x)
PCI-AD28	B10c (1x)
PCI-AD28	B10d (2x)
PCI-AD28	B12a (1x)
PCI-AD28	B12b (1x)
PCI-AD28	B13 (1x)
PCI-AD28	B14b (2x)
PCI-AD29	B07a (1x)
PCI-AD29	B10c (1x)
PCI-AD29	B10d (2x)
PCI-AD29	B12a (1x)
PCI-AD29	B12b (1x)
PCI-AD29	B13 (1x)
PCI-AD29	B14b (2x)
PCI-AD3	B07a (1x)
PCI-AD3	B12a (1x)
PCI-AD3	B12b (1x)
PCI-AD3	B13 (1x)
PCI-AD3	B14b (1x)
PCI-AD30	B07a (1x)
PCI-AD30	B10c (1x)
PCI-AD30	B10d (2x)
PCI-AD30	B12a (1x)
PCI-AD30	B12b (1x)
PCI-AD30	B13 (1x)
PCI-AD30	B14b (2x)
PCI-AD31	B07a (1x)
PCI-AD31	B10c (1x)
PCI-AD31	B10d (2x)
PCI-AD31	B12a (1x)
PCI-AD31	B12b (1x)
PCI-AD31	B13 (1x)
PCI-AD31	B14b (2x)
PCI-AD4	B07a (1x)
PCI-AD4	B12a (1x)
PCI-AD4	B12b (1x)
PCI-AD4	B13 (1x)
PCI-AD4	B14b (1x)
PCI-AD5	B07a (1x)
PCI-AD5	B12a (1x)
PCI-AD5	B12b (1x)
PCI-AD5	B13 (1x)
PCI-AD5	B14b (1x)
PCI-AD6	B07a (1x)
PCI-AD6	B12a (1x)
PCI-AD6	B12b (1x)
PCI-AD6	B13 (1x)
PCI-AD6	B14b (1x)
PCI-AD7	B07a (1x)
PCI-AD7	B12a (1x)
PCI-AD7	B12b (1x)
PCI-AD7	B13 (1x)
PCI-AD7	B14b (1x)
PCI-AD8	B07a (1x)
PCI-AD8	B12a (1x)
PCI-AD8	B12b (1x)
PCI-AD8	B13 (1x)
PCI-AD8	B14b (1x)
PCI-AD9	B07a (1x)
PCI-AD9	B12a (1x)
PCI-AD9	B12b (1x)
PCI-AD9	B13 (1x)
PCI-AD9	B14b (1x)
PCI-CBE0	B07a (1x)
PCI-CBE0	B12a (1x)
PCI-CBE0	B12b (1x)
PCI-CBE0	B13 (1x)
PCI-CBE1	B07a (1x)
PCI-CBE1	B12a (1x)
PCI-CBE1	B12b (1x)
PCI-CBE1	B13 (1x)
PCI-CBE1	B14b (2x)
PCI-CBE2	B07a (1x)
PCI-CBE2	B12a (1x)
PCI-CBE2	B12b (1x)
PCI-CBE2	B13 (1x)
PCI-CBE2	B14b (2x)
PCI-CBE3	B07a (1x)
PCI-CBE3	B12a (1x)
PCI-CBE3	B12b (1x)
PCI-CBE3	B13 (1x)
PCI-CLK-ETHERNET	B07a (2x)
PCI-CLK-ETHERNET	B13 (1x)
PCI-CLK-SLOT	B07a (2x)
PCI-CLK-SLOT	B12b (1x)
PCI-CLK-SPIDER	B06a (1x)
PCI-CLK-SPIDER	B07a (2x)
PCI-CLK-USB20	B07a (2x)
PCI-CLK-USB20	B12a (1x)
PCI-CLK-VPR	B07a (3x)
PCI-DEVSEL	B07a (1x)
PCI-DEVSEL	B12a (1x)
PCI-DEVSEL	B12b (1x)
PCI-DEVSEL	B13 (1x)
PCI-FRAME	B07a (1x)
PCI-FRAME	B12a (1x)
PCI-FRAME	B12b (1x)
PCI-FRAME	B13 (1x)
PCI-GNT	B07a (2x)
PCI-GNT	B12a (2x)
PCI-GNT	B12b (1x)
PCI-GNT-A	B07a (1x)
PCI-GNT-A	B13 (2x)
PCI-INTA	B07a (2x)
PCI-INTA	B12b (1x)
PCI-IRDY	B07a (1x)
PCI-IRDY	B12a (1x)
PCI-IRDY	B12b (1x)
PCI-IRDY	B13 (1x)
PCI-PAR	B07a (1x)
PCI-PAR	B12a (1x)
PCI-PAR	B12b (1x)
PCI-PAR	B13 (1x)
PCI-PERR	B07a (1x)
PCI-PERR	B12a (1x)
PCI-PERR	B12b (1x)
PCI-PERR	B13 (1x)
PCI-REQ	B07a (2x)
PCI-REQ	B12a (2x)
PCI-REQ	B12b (1x)
PCI-REQ-A	B07a (2x)
PCI-REQ-A	B13 (1x)
PCI-REQ-B	B07a (2x)
PCI-REQ-B	B10a (1x)
PCI-SERR	B07a (1x)
PCI-SERR	B12a (1x)
PCI-SERR	B12b (1x)
PCI-SERR	B13 (1x)
PCI-STOP	B07a (1x)
PCI-STOP	B12a (1x)
PCI-STOP	B12b (1x)
PCI-STOP	B13 (1x)
PCI-TRDY	B07a (1x)
PCI-TRDY	B12a (1x)
PCI-TRDY	B12b (1x)
PCI-TRDY	B13 (1x)
PDIR	B10a (1x)
PDIR	B10b (2x)
PDOE	B10a (1x)
PDOE	B10b (1x)
PHY-D(0)	B14a (2x)
PHY-D(1)	B14a (2x)
PHY-D(2)	B14a (2x)
PHY-D(3)	B14a (2x)
PHY-D(4)	B14a (2x)
PHY-D(5)	B14a (2x)
PHY-D(6)	B14a (2x)
PHY-D(7)	B14a (2x)
P-IF-MAIN	B02a (1x)
P-IF-MAIN	B02b (1x)
P-IF-SUB	B03a (1x)
P-IF-SUB	B03b (1x)
PLL-1V2	B05f (2x)
PLL-3V3	B05f (2x)
PLL-OUT	B07a (3x)
PN-BOUT-0	B05b (1x)
PN-BOUT-0	B16f (1x)
PN-BOUT-1	B05b (1x)
PN-BOUT-1	B16f (1x)
PN-BOUT-2	B05b (1x)
PN-BOUT-2	B16f (1x)
PN-BOUT-3	B05b (1x)
PN-BOUT-3	B16f (1x)
PN-BOUT-4	B05b (1x)
PN-BOUT-4	B16f (1x)
PN-BOUT-5	B05b (1x)
PN-BOUT-5	B16f (1x)
PN-BOUT-6	B05b (1x)
PN-BOUT-6	B16f (1x)
PN-BOUT-7	B05b (1x)
PN-BOUT-7	B16f (1x)
PN-BOUT-8	B05b (1x)
PN-BOUT-8	B16f (1x)
PN-BOUT-9	B05b (1x)
PN-BOUT-9	B16f (1x)
PN-GOUT-0	B05b (1x)
PN-GOUT-0	B16f (1x)
PN-GOUT-1	B05b (1x)
PN-GOUT-1	B16f (1x)
PN-GOUT-2	B05b (1x)
PN-GOUT-2	B16f (1x)
PN-GOUT-3	B05b (1x)
PN-GOUT-3	B16f (1x)
PN-GOUT-4	B05b (1x)
PN-GOUT-4	B16f (1x)
PN-GOUT-5	B05b (1x)
PN-GOUT-5	B16f (1x)
PN-GOUT-6	B05b (1x)
PN-GOUT-6	B16f (1x)
PN-GOUT-7	B05b (1x)
PN-GOUT-7	B16f (1x)
PN-GOUT-8	B05b (1x)
PN-GOUT-8	B16f (1x)
PN-GOUT-9	B05b (1x)
PN-GOUT-9	B16f (1x)
PN-OUT-CLK	B05b (1x)
PN-OUT-CLK	B16f (1x)
PN-OUT-DE	B05b (1x)
PN-OUT-DE	B16f (1x)
PN-OUT-FF	B05b (1x)
PN-OUT-FF	B16f (1x)
PN-OUT-HS	B05b (1x)
PN-OUT-HS	B16f (1x)
PN-OUT-VS	B05b (1x)
PN-OUT-VS	B16f (1x)
PN-ROUT-0	B05b (1x)
PN-ROUT-0	B16f (1x)
PN-ROUT-1	B05b (1x)
PN-ROUT-1	B16f (1x)
PN-ROUT-2	B05b (1x)
PN-ROUT-2	B16f (1x)
PN-ROUT-3	B05b (1x)
PN-ROUT-3	B16f (1x)
PN-ROUT-4	B05b (1x)
PN-ROUT-4	B16f (1x)
PN-ROUT-5	B05b (1x)
PN-ROUT-5	B16f (1x)
PN-ROUT-6	B05b (1x)
PN-ROUT-6	B16f (1x)
PN-ROUT-7	B05b (1x)
PN-ROUT-7	B16f (1x)
PN-ROUT-8	B05b (1x)
PN-ROUT-8	B16f (1x)
PN-ROUT-9	B05b (1x)
PN-ROUT-9	B16f (1x)
PNX-MA-0	B05d (2x)
PNX-MA-1	B05d (2x)
PNX-MA-10	B05d (2x)
PNX-MA-11	B05d (2x)
PNX-MA-12	B05d (2x)
PNX-MA-2	B05d (2x)
PNX-MA-3	B05d (2x)
PNX-MA-4	B05d (2x)
PNX-MA-5	B05d (2x)
PNX-MA-6	B05d (2x)
PNX-MA-7	B05d (2x)
PNX-MA-8	B05d (2x)
PNX-MA-9	B05d (2x)
PNX-MBA0	B05d (2x)
PNX-MBA1	B05d (2x)
PNX-MCAS	B05d (2x)
PNX-MCKE	B05d (2x)
PNX-MCLK-N	B05d (2x)
PNX-MCLK-P	B05d (2x)
PNX-MCS-0	B05d (2x)
PNX-MDATA-0	B05d (2x)
PNX-MDATA-1	B05d (2x)
PNX-MDATA-10	B05d (2x)
PNX-MDATA-11	B05d (2x)
PNX-MDATA-12	B05d (2x)
PNX-MDATA-13	B05d (2x)
PNX-MDATA-14	B05d (2x)
PNX-MDATA-15	B05d (2x)
PNX-MDATA-2	B05d (2x)
PNX-MDATA-3	B05d (2x)
PNX-MDATA-4	B05d (2x)
PNX-MDATA-5	B05d (2x)
PNX-MDATA-6	B05d (2x)
PNX-MDATA-7	B05d (2x)
PNX-MDATA-8	B05d (2x)
PNX-MDATA-9	B05d (2x)
PNX-MDQM-0	B05d (2x)
PNX-MDQM-1	B05d (1x)
PNX-MDQS-0	B05d (1x)
PNX-MDQS-1	B05d (1x)
PNX-MRAS	B05d (2x)
PNX-MWE	B05d (2x)
POD-A(0)	B10a (1x)
POD-A(0)	B10c (1x)
POD-A(1)	B10a (1x)
POD-A(1)	B10c (1x)
POD-A(10)	B10a (1x)
POD-A(10)	B10c (1x)
POD-A(11)	B10a (1x)
POD-A(11)	B10c (1x)
POD-A(12)	B10a (1x)
POD-A(12)	B10c (1x)
POD-A(13)	B10a (1x)
POD-A(13)	B10c (1x)
POD-A(2)	B10a (1x)
POD-A(2)	B10c (1x)
POD-A(3)	B10a (1x)
POD-A(3)	B10c (1x)
POD-A(4)	B10a (1x)
POD-A(4)	B10b (1x)
POD-A(4)	B10c (1x)
POD-A(5)	B10b (2x)
POD-A(5)	B10c (1x)
POD-A(6)	B10b (2x)
POD-A(6)	B10c (1x)
POD-A(7)	B10b (2x)
POD-A(7)	B10c (1x)
POD-A(8)	B10a (1x)
POD-A(8)	B10b (1x)
POD-A(8)	B10c (1x)
POD-A(9)	B10a (1x)
POD-A(9)	B10b (1x)
POD-A(9)	B10c (1x)
POD-CLK	B10a (1x)
POD-CLK	B10c (1x)
POD-D(0)	B10a (1x)
POD-D(0)	B10c (1x)
POD-D(1)	B10a (1x)
POD-D(1)	B10c (1x)
POD-D(2)	B10a (1x)
POD-D(2)	B10c (1x)
POD-D(3)	B10a (1x)
POD-D(3)	B10c (1x)
POD-D(4)	B10a (1x)
POD-D(4)	B10c (1x)
POD-D(5)	B10a (1x)
POD-D(5)	B10c (1x)
POD-D(6)	B10a (1x)
POD-D(6)	B10c (1x)
POD-D(7)	B10a (1x)
POD-D(7)	B10c (1x)
POD-DATA0	B10a (1x)
POD-DATA0	B10c (1x)
POD-DATA1	B10a (1x)
POD-DATA1	B10c (1x)
POD-DATA2	B10a (1x)
POD-DATA2	B10c (1x)
POD-DATA3	B10a (1x)
POD-DATA3	B10c (1x)
POD-DATA4	B10a (1x)
POD-DATA4	B10c (1x)
POD-DATA5	B10a (1x)
POD-DATA5	B10c (1x)
POD-DATA6	B10a (1x)
POD-DATA6	B10c (1x)
POD-DATA7	B10a (1x)
POD-DATA7	B10c (1x)
POD-MODE	B05e (2x)
POD-MODE	B08f (1x)
POD-MODE	B16d (1x)
POD-SOP	B10a (1x)
POD-SOP	B10c (1x)
POD-VALID	B10a (1x)
POD-VALID	B10c (1x)
POD-VCC	B10a (6x)
POD-VPP	B10a (3x)
POWERDOWN-1394	B07a (1x)
POWERDOWN-1394	B09b (1x)
POWERDOWN-1394	B14a (1x)
POWER-OK-DISPLAY	B05e (2x)
POWER-OK-DISPLAY	B16e (1x)
POWER-OK-DISPLAY-3V3	B05e (2x)
POWER-OK-PLATFORM	B07a (1x)
POWER-OK-PLATFORM	B16e (1x)
POWER-OK-PLATFORM-3V3	B05e (1x)
POWER-OK-PLATFORM-3V3	B07a (2x)
PROT_DC	B01a (4x)
PROT_DC	B01c (1x)
PROT-AUDIOSUPPLY	B05e (2x)
PROT-AUDIOSUPPLY	B15a (1x)
PROT-AUDIOSUPPLY	B15c (1x)
PROT-AUDIOSUPPLY	B16c (1x)
PROT-AUDIOSUPPLY	B16e (1x)
PSEN	B05e (2x)
PWM-3	B08e (2x)
PWM-OR	B08e (2x)
QTX_POD-A(7)	B10a (2x)
QTX_POD-A(7)	B10b (3x)
QTX-POD	B10b (1x)
RAS	B06b (2x)
RC	B05e (2x)
RC	B16b (1x)
RDY_IRQA	B10a (3x)
REG	B10a (2x)
REGIMBEAU	B07a (2x)
REGIMBEAU	B16c (1x)
RESET-1394	B07a (1x)
RESET-1394	B14a (2x)
RESET-AUDIO	B05c (1x)
RESET-AUDIO	B05e (2x)
RESET-ETHERNET	B07a (1x)
RESET-ETHERNET	B13 (2x)
RESET-FE-MAIN	B02b (1x)
RESET-FE-MAIN	B07a (2x)
RESET-FE-MAIN	B16a (1x)
RESET-FE-SUB	B03b (1x)
RESET-FE-SUB	B16a (1x)
RESET-MAIN-NVM	B05d (1x)
RESET-MAIN-NVM	B05e (2x)
RESET-MIPS	B05e (3x)
RESET-MIPS	B07a (1x)
RESET-PNX2015	B05e (3x)
RESET-POD-CI	B07a (1x)
RESET-POD-CI	B10a (2x)
RESET-STBY	B05e (1x)
RESET-STBY	B16d (1x)
RESET-SYSTEM	B05e (2x)
RESET-SYSTEM	B07a (1x)
RESET-SYSTEM	B12b (1x)
RESET-TM	B06a (1x)
RESET-TM	B07a (1x)
RESET-USB20	B07a (1x)
RESET-USB20	B12a (2x)
RIGHT-OUTPUT	B15a (2x)
RIGHT-OUTPUT	B15c (1x)
RSTA	B10a (2x)
R-VGA	B09b (1x)
R-VGA	B11a (1x)
RXD	B10d (2x)
RXD	B12b (1x)
RXD	B16c (1x)
RXD-UP	B05e (1x)
RXD-UP	B10d (1x)
RXD-VIPER	B07a (1x)
RXD-VIPER	B10d (2x)
RXP3CLK	B08a (1x)
RXP3CLK	B08e (1x)
RXP3EA-_G7	B08a (2x)
RXP3EA-_G7	B08e (1x)
RXP3EA+_G6	B08a (2x)
RXP3EA+_G6	B08e (1x)
RXP3EB-_G5	B08a (2x)
RXP3EB-_G5	B08e (1x)
RXP3EB+_G4	B08a (2x)
RXP3EB+_G4	B08e (1x)
RXP3EC-_G3	B08a (2x)
RXP3EC-_G3	B08e (1x)
RXP3EC+_G2	B08a (2x)
RXP3EC+_G2	B08e (1x)
RXP3ECLK-_G0	B08a (2x)
RXP3ECLK-_G0	B08e (1x)
RXP3ECLK+_G1	B08a (2x)
RXP3ECLK+_G1	B08e (1x)
RXP3ED-_R9	B08a (2x)
RXP3ED-_R9	B08e (1x)
RXP3ED+_R8	B08a (2x)
RXP3ED+_R8	B08e (1x)
RXP3EE-_R7	B08a (2x)
RXP3EE-_R7	B08e (1x)
RXP3EE+_R6	B08a (2x)
RXP3EE+_R6	B08e (1x)
RXP3FF	B08a (1x)
RXP3FF	B08e (1x)
RXP3HS_DE	B08a (1x)
RXP3HS_DE	B08e (1x)
RXP3OA-_B9	B08a (2x)
RXP3OA-_B9	B08e (1x)
RXP3OA+_B8	B08a (2x)
RXP3OA+_B8	B08e (1x)
RXP3OB-_B7	B08a (2x)
RXP3OB-_B7	B08e (1x)
RXP3OB+_B6	B08a (2x)
RXP3OB+_B6	B08e (1x)
RXP3OC-_B5	B08a (2x)
RXP3OC-_B5	B08e (1x)
RXP3OC+_B4	B08a (2x)
RXP3OC+_B4	B08e (1x)
RXP3OCLK-_B2	B08a (2x)
RXP3OCLK-_B2	B08e (1x)
RXP3OCLK+_B3	B08a (2x)
RXP3OCLK+_B3	B08e (1x)
RXP3OD-_B1	B08a (2x)
RXP3OD-_B1	B08e (1x)
RXP3OD+_B0	B08a (2x)
RXP3OD+_B0	B08e (1x)
RXP3OE-_G9	B08a (2x)
RXP3OE-_G9	B08e (1x)
RXP3OE+_G8	B08a (2x)
RXP3OE+_G8	B08e (1x)
RXP3R0	B08a (1x)
RXP3R0	B08e (1x)
RXP3R1	B08a (1x)
RXP3R1	B08e (1x)
RXP3R2	B08a (1x)
RXP3R2	B08e (1x)
RXP3R3	B08a (1x)
RXP3R3	B08e (1x)
RXP3R4	B08a (1x)
RXP3R4	B08e (1x)
RXP3R5	B08a (1x)
RXP3R5	B08e (1x)
RXP3VS	B08a (1x)
RXP3VS	B08e (1x)
SCL-AMBI	B08f (2x)
SCL-AMBI	B16e (1x)
SCL-AMBI-3V3	B08c (1x)
SCL-AMBI-3V3	B08e (1x)
SCL-AMBI-3V3	B08f (1x)
SCL-AMBI-3V3	B08g (1x)
SCL-CD-TUN-MAIN	B02a (1x)
SCL-CD-TUN-MAIN	B02b (1x)
SCL-CD-TUN-SUB	B03a (1x)
SCL-CD-TUN-SUB	B03b (1x)
SCL-DMA	B04b (1x)
SCL-DMA	B04f (1x)
SCL-DMA	B05e (3x)
SCL-DMA	B06a (1x)
SCL-DMA	B07a (2x)
SCL-DMA	B08c (1x)
SCL-DMA	B08e (1x)
SCL-DMA	B08f (1x)
SCL-DMA	B08g (1x)
SCL-DMA	B14a (1x)
SCL-DMA	B16a (1x)
SCL-DMA-FE	B02b (2x)
SCL-DMA-FE	B03b (1x)
SCL-DMA-FE	B16a (1x)
SCL-I2C4	B07a (2x)
SCL-I2C4	B08f (1x)
SCL-I2C4	B16e (1x)
SCL-I2C4-DISP	B08a (1x)
SCL-I2C4-DISP	B08f (1x)
SCL-MM	B02a (1x)
SCL-MM	B03a (1x)
SCL-MM	B07a (2x)
SCL-MM	B09b (1x)
SCL-MM	B10a (1x)
SCL-MM	B16b (1x)
SCL-UP-SW	B05e (2x)
SCL-UP-SW	B08f (1x)
SCL-UP-VIP	B05d (1x)
SCL-UP-VIP	B05e (2x)
SCL-UP-VIP	B07a (1x)
SCL-UP-VIP	B16e (1x)
SCL-UP-VIP-CONN	B10d (1x)
SCL-UP-VIP-CONN	B16e (1x)
SD1-A0	B08c (1x)
SD1-A0	B08d (1x)
SD1-A1	B08c (1x)
SD1-A1	B08d (1x)
SD1-A10	B08c (1x)
SD1-A10	B08d (1x)
SD1-A11	B08c (1x)
SD1-A11	B08d (1x)
SD1-A2	B08c (1x)
SD1-A2	B08d (1x)
SD1-A3	B08c (1x)
SD1-A3	B08d (1x)
SD1-A4	B08c (1x)
SD1-A4	B08d (1x)
SD1-A5	B08c (1x)
SD1-A5	B08d (1x)
SD1-A6	B08c (1x)
SD1-A6	B08d (1x)
SD1-A7	B08c (1x)
SD1-A7	B08d (1x)
SD1-A8	B08c (1x)
SD1-A8	B08d (1x)
SD1-A9	B08c (1x)
SD1-A9	B08d (1x)
SD1-CAS	B08c (1x)
SD1-CAS	B08d (1x)
SD1-CKE	B08c (1x)
SD1-CKE	B08d (1x)
SD1-CLK	B08c (1x)
SD1-CLK	B08d (1x)
SD1-CS	B08c (1x)
SD1-CS	B08d (1x)
SD1-DQ1	B08c (1x)
SD1-DQ1	B08d (1x)
SD1-DQ10	B08c (1x)
SD1-DQ10	B08d (1x)
SD1-DQ11	B08c (1x)
SD1-DQ11	B08d (1x)
SD1-DQ12	B08c (1x)
SD1-DQ12	B08d (1x)
SD1-DQ13	B08c (1x)
SD1-DQ13	B08d (1x)
SD1-DQ14	B08c (1x)
SD1-DQ14	B08d (1x)
SD1-DQ15	B08c (1x)
SD1-DQ15	B08d (1x)
SD1-DQ16	B08c (1x)
SD1-DQ16	B08d (1x)
SD1-DQ2	B08c (1x)
SD1-DQ2	B08d (1x)
SD1-DQ3	B08c (1x)
SD1-DQ3	B08d (1x)
SD1-DQ4	B08c (1x)
SD1-DQ4	B08d (1x)
SD1-DQ5	B08c (1x)
SD1-DQ5	B08d (1x)
SD1-DQ6	B08c (1x)
SD1-DQ6	B08d (1x)
SD1-DQ7	B08c (1x)
SD1-DQ7	B08d (1x)
SD1-DQ8	B08c (1x)
SD1-DQ8	B08d (1x)
SD1-DQ9	B08c (1x)
SD1-DQ9	B08d (1x)
SD1-DQM	B08c (1x)
SD1-DQM	B08d (1x)
SD1-RAS	B08c (1x)
SD1-RAS	B08d (1x)
SD1-WE	B08c (1x)
SD1-WE	B08d (1x)
SDA-AMBI	B08f (2x)
SDA-AMBI	B16e (1x)
SDA-AMBI-3V3	B08c (1x)
SDA-AMBI-3V3	B08e (1x)
SDA-AMBI-3V3	B08f (1x)
SDA-AMBI-3V3	B08g (1x)
SDA-CD-TUN-MAIN	B02a (1x)
SDA-CD-TUN-MAIN	B02b (1x)
SDA-CD-TUN-SUB	B03a (1x)
SDA-CD-TUN-SUB	B03b (1x)
SDA-DMA	B04b (1x)
SDA-DMA	B04f (1x)
SDA-DMA	B05e (3x)
SDA-DMA	B06a (1x)
SDA-DMA	B07a (2x)
SDA-DMA	B08c (1x)
SDA-DMA	B08e (1x)
SDA-DMA	B08f (1x)
SDA-DMA	B08g (1x)
SDA-DMA	B14a (1x)
SDA-DMA	B16a (1x)
SDA-DMA-FE	B02b (2x)
SDA-DMA-FE	B03b (1x)
SDA-DMA-FE	B16a (1x)
SDA-I2C4	B07a (2x)
SDA-I2C4	B08f (1x)
SDA-I2C4	B16e (1x)
SDA-I2C4-DISP	B08a (1x)
SDA-I2C4-DISP	B08f (1x)
SDA-MM	B02a (1x)
SDA-MM	B03a (1x)
SDA-MM	B07a (2x)
SDA-MM	B09b (1x)
SDA-MM	B10a (1x)
SDA-MM	B16b (1x)
SDA-UP-SW	B05e (2x)
SDA-UP-SW	B08f (1x)
SDA-UP-VIP	B05d (1x)
SDA-UP-VIP	B05e (2x)
SDA-UP-VIP	B07a (1x)
SDA-UP-VIP	B16e (1x)
SDA-UP-VIP-CONN	B10d (1x)
SDA-UP-VIP-CONN	B16e (1x)
SDM	B05e (2x)
SDM	B16a (1x)
SDM-PNX	B05e (2x)
SEL-IF-LL1	B04g (1x)
SEL-IF-LL1	B07a (1x)
SEL-IF-LL2	B04c (1x)
SEL-IF-LL2	B07a (1x)
SEL-POD	B10c (2x)
SEL-POD	B16a (1x)
SEL-POD-MAIN	B02b (1x)
SEL-POD-MAIN	B16a (1x)
SEL-POD-SUB	B03b (1x)
SEL-POD-SUB	B16a (1x)
SENSE-1V2-VIPER	B01a (1x)
SOUND-ENABLE	B07a (1x)
SOUND-ENABLE	B15a (2x)
SOUND-ENABLE	B16c (1x)
SOUND-ENABLE-VPR	B07a (2x)
SPDIF-HDMI	B07c (1x)
SPDIF-HDMI	B09b (1x)
SPDIF-IN1	B07c (1x)
SPDIF-IN1	B11b (1x)
SPDIF-OPT-IN	B11b (1x)
SPDIF-OPT-IN	B16c (1x)
SPDIF-OUT1	B07c (1x)
SPDIF-OUT1	B11b (1x)
SPDIF-SEL-OUT1	B11b (3x)
SPI-1	B11a (1x)
SPI-1	B11b (1x)
SPI-2	B11b (1x)
SPI-2	B16c (1x)
SPI-CLK	B05e (2x)
SPI-CSB	B05e (2x)
SPI-OUT	B11a (1x)
SPI-OUT	B11b (1x)
SPI-PROG	B05e (2x)
SPI-PROG	B16a (1x)
SPI-PROG-PNX	B05e (2x)
SPI-SDI	B05e (2x)
SPI-SDO	B05e (2x)
SPI-WP	B05e (3x)
STANDBY	B16d (1x)
STANDBY	B16e (1x)
STBY-WP-NAND-FLASH	B05e (2x)
STBY-WP-NAND-FLASH	B10d (1x)
STROBE1N-MAIN	B04a (1x)
STROBE1N-MAIN	B05a (1x)
STROBE1N-SUB	B04e (1x)
STROBE1N-SUB	B05a (1x)
STROBE1P-MAIN	B04a (1x)
STROBE1P-MAIN	B05a (1x)
STROBE1P-SUB	B04e (1x)
STROBE1P-SUB	B05a (1x)
STROBE2N-MAIN	B04a (1x)
STROBE2N-MAIN	B05a (1x)
STROBE2N-SUB	B04e (1x)
STROBE2N-SUB	B05a (1x)
STROBE2P-MAIN	B04a (1x)
STROBE2P-MAIN	B05a (1x)
STROBE2P-SUB	B04e (1x)
STROBE2P-SUB	B05a (1x)
STROBE3N-MAIN	B04a (1x)
STROBE3N-MAIN	B05a (1x)
STROBE3N-SUB	B04e (1x)
STROBE3N-SUB	B05a (1x)
STROBE3P-MAIN	B04a (1x)
STROBE3P-MAIN	B05a (1x)
STROBE3P-SUB	B04e (1x)
STROBE3P-SUB	B05a (1x)
-SUB-OUTPUT	B15b (2x)
-SUB-OUTPUT	B15c (1x)
SUPPLY-FAULT	B05e (8x)
SUPPLY-FAULT	B06d (4x)
SUPPLY-FAULT	B10a (4x)
SUPPLY-FAULT	B16e (2x)
SYNC-SW	B15a (1x)
SYNC-SW	B15b (1x)
TCK	B08b (1x)
TCK	B08c (1x)
TCK	B08g (1x)
TDI	B08b (1x)
TDI	B08c (1x)
TDI	B08g (1x)
TDO	B08b (1x)
TDO	B08c (1x)
TDO	B08g (1x)
TEMP-SENSOR	B05e (2x)
TMS	B08b (1x)
TMS	B08c (1x)
TMS	B08g (1x)
TS-CLK	B07c (1x)
TS-CLK	B14a (1x)
TS-DATA0	B07c (1x)
TS-DATA0	B14a (1x)
TS-DATA1	B07c (1x)
TS-DATA1	B14a (1x)
TS-DATA2	B07c (1x)
TS-DATA2	B14a (1x)
TS-DATA3	B07c (1x)
TS-DATA3	B14a (1x)
TS-DATA4	B07c (1x)
TS-DATA4	B14a (1x)
TS-DATA5	B07c (1x)
TS-DATA5	B14a (1x)
TS-DATA6	B07c (1x)
TS-DATA6	B14a (1x)
TS-DATA7	B07c (1x)
TS-DATA7	B14a (1x)
TS-SOP	B07c (1x)
TS-SOP	B14a (1x)
TS-VALID	B07c (1x)
TS-VALID	B14a (1x)
TUNN-REF	B05c (2x)
TUN-SPIDER-RX-BUSY	B05c (1x)
TUN-SPIDER-RX-BUSY	B06a (1x)
TUN-SPIDER-RX-CLKN	B05c (1x)
TUN-SPIDER-RX-CLKN	B06a (1x)
TUN-SPIDER-RX-CLKP	B05c (1x)
TUN-SPIDER-RX-CLKP	B06a (1x)
TUN-SPIDER-RX-DATA0	B05c (1x)
TUN-SPIDER-RX-DATA0	B06a (1x)
TUN-SPIDER-RX-DATA1	B05c (1x)
TUN-SPIDER-RX-DATA1	B06a (1x)
TUN-SPIDER-RX-DATA10	B05c (1x)
TUN-SPIDER-RX-DATA10	B06a (1x)
TUN-SPIDER-RX-DATA11	B05c (1x)
TUN-SPIDER-RX-DATA11	B06a (1x)
TUN-SPIDER-RX-DATA12	B05c (1x)
TUN-SPIDER-RX-DATA12	B06a (1x)
TUN-SPIDER-RX-DATA13	B05c (1x)
TUN-SPIDER-RX-DATA13	B06a (1x)
TUN-SPIDER-RX-DATA14	B05c (1x)
TUN-SPIDER-RX-DATA14	B06a (1x)
TUN-SPIDER-RX-DATA15	B05c (1x)
TUN-SPIDER-RX-DATA15	B06a (1x)
TUN-SPIDER-RX-DATA2	B05c (1x)
TUN-SPIDER-RX-DATA2	B06a (1x)
TUN-SPIDER-RX-DATA3	B05c (1x)
TUN-SPIDER-RX-DATA3	B06a (1x)
TUN-SPIDER-RX-DATA4	B05c (1x)
TUN-SPIDER-RX-DATA4	B06a (1x)
TUN-SPIDER-RX-DATA5	B05c (1x)
TUN-SPIDER-RX-DATA5	B06a (1x)
TUN-SPIDER-RX-DATA6	B05c (1x)
TUN-SPIDER-RX-DATA6	B06a (1x)
TUN-SPIDER-RX-DATA7	B05c (1x)
TUN-SPIDER-RX-DATA7	B06a (1x)
TUN-SPIDER-RX-DATA8	B05c (1x)
TUN-SPIDER-RX-DATA8	B06a (1x)
TUN-SPIDER-RX-DATA9	B05c (1x)
TUN-SPIDER-RX-DATA9	B06a (1x)
TUN-SPIDER-TX-BUSY	B05c (1x)
TUN-SPIDER-TX-BUSY	B06a (1x)
TUN-SPIDER-TX-CLKN	B05c (1x)
TUN-SPIDER-TX-CLKN	B06a (1x)
TUN-SPIDER-TX-CLKP	B05c (1x)
TUN-SPIDER-TX-CLKP	B06a (1x)
TUN-SPIDER-TX-DATA0	B05c (1x)
TUN-SPIDER-TX-DATA0	B06a (1x)
TUN-SPIDER-TX-DATA1	B05c (1x)
TUN-SPIDER-TX-DATA1	B06a (1x)
TUN-SPIDER-TX-DATA10	B05c (1x)
TUN-SPIDER-TX-DATA10	B06a (1x)
TUN-SPIDER-TX-DATA11	B05c (1x)
TUN-SPIDER-TX-DATA11	B06a (1x)
TUN-SPIDER-TX-DATA12	B05c (1x)
TUN-SPIDER-TX-DATA12	B06a (1x)
TUN-SPIDER-TX-DATA13	B05c (1x)
TUN-SPIDER-TX-DATA13	B06a (1x)
TUN-SPIDER-TX-DATA14	B05c (1x)
TUN-SPIDER-TX-DATA14	B06a (1x)
TUN-SPIDER-TX-DATA15	B05c (1x)
TUN-SPIDER-TX-DATA15	B06a (1x)
TUN-SPIDER-TX-DATA2	B05c (1x)
TUN-SPIDER-TX-DATA2	B06a (1x)
TUN-SPIDER-TX-DATA3	B05c (1x)
TUN-SPIDER-TX-DATA3	B06a (1x)
TUN-SPIDER-TX-DATA4	B05c (1x)
TUN-SPIDER-TX-DATA4	B06a (1x)
TUN-SPIDER-TX-DATA5	B05c (1x)
TUN-SPIDER-TX-DATA5	B06a (1x)
TUN-SPIDER-TX-DATA6	B05c (1x)
TUN-SPIDER-TX-DATA6	B06a (1x)
TUN-SPIDER-TX-DATA7	B05c (1x)
TUN-SPIDER-TX-DATA7	B06a (1x)
TUN-SPIDER-TX-DATA8	B05c (1x)
TUN-SPIDER-TX-DATA8	B06a (1x)
TUN-SPIDER-TX-DATA9	B05c (1x)
TUN-SPIDER-TX-DATA9	B06a (1x)
TUNS-REF	B05c (2x)
TUN-VIPER-RX-BUSY	B05c (1x)
TUN-VIPER-RX-BUSY	B07c (1x)
TUN-VIPER-RX-CLKN	B05c (1x)
TUN-VIPER-RX-CLKN	B07c (1x)
TUN-VIPER-RX-CLKP	B05c (1x)
TUN-VIPER-RX-CLKP	B07c (1x)
TUN-VIPER-RX-DATA0	B05c (1x)
TUN-VIPER-RX-DATA0	B07c (1x)
TUN-VIPER-RX-DATA1	B05c (1x)
TUN-VIPER-RX-DATA1	B07c (1x)
TUN-VIPER-RX-DATA10	B05c (1x)
TUN-VIPER-RX-DATA10	B07c (1x)
TUN-VIPER-RX-DATA11	B05c (1x)
TUN-VIPER-RX-DATA11	B07c (1x)
TUN-VIPER-RX-DATA12	B05c (1x)
TUN-VIPER-RX-DATA12	B07c (1x)
TUN-VIPER-RX-DATA13	B05c (1x)
TUN-VIPER-RX-DATA13	B07c (1x)
TUN-VIPER-RX-DATA14	B05c (1x)
TUN-VIPER-RX-DATA14	B07c (1x)
TUN-VIPER-RX-DATA15	B05c (1x)
TUN-VIPER-RX-DATA15	B07c (1x)
TUN-VIPER-RX-DATA2	B05c (1x)
TUN-VIPER-RX-DATA2	B07c (1x)
TUN-VIPER-RX-DATA3	B05c (1x)
TUN-VIPER-RX-DATA3	B07c (1x)
TUN-VIPER-RX-DATA4	B05c (1x)
TUN-VIPER-RX-DATA4	B07c (1x)
TUN-VIPER-RX-DATA5	B05c (1x)
TUN-VIPER-RX-DATA5	B07c (1x)
TUN-VIPER-RX-DATA6	B05c (1x)
TUN-VIPER-RX-DATA6	B07c (1x)
TUN-VIPER-RX-DATA7	B05c (1x)
TUN-VIPER-RX-DATA7	B07c (1x)
TUN-VIPER-RX-DATA8	B05c (1x)
TUN-VIPER-RX-DATA8	B07c (1x)
TUN-VIPER-RX-DATA9	B05c (1x)
TUN-VIPER-RX-DATA9	B07c (1x)
TUN-VIPER-TX-BUSY	B05c (1x)
TUN-VIPER-TX-BUSY	B07c (1x)
TUN-VIPER-TX-CLKN	B05c (1x)
TUN-VIPER-TX-CLKN	B07c (1x)
TUN-VIPER-TX-CLKP	B05c (1x)
TUN-VIPER-TX-CLKP	B07c (1x)
TUN-VIPER-TX-DATA0	B05c (1x)
TUN-VIPER-TX-DATA0	B07c (1x)
TUN-VIPER-TX-DATA1	B05c (1x)
TUN-VIPER-TX-DATA1	B07c (1x)
TUN-VIPER-TX-DATA10	B05c (1x)
TUN-VIPER-TX-DATA10	B07c (1x)
TUN-VIPER-TX-DATA11	B05c (1x)
TUN-VIPER-TX-DATA11	B07c (1x)
TUN-VIPER-TX-DATA12	B05c (1x)
TUN-VIPER-TX-DATA12	B07c (1x)
TUN-VIPER-TX-DATA13	B05c (1x)
TUN-VIPER-TX-DATA13	B07c (1x)
TUN-VIPER-TX-DATA14	B05c (1x)
TUN-VIPER-TX-DATA14	B07c (1x)
TUN-VIPER-TX-DATA15	B05c (1x)
TUN-VIPER-TX-DATA15	B07c (1x)
TUN-VIPER-TX-DATA2	B05c (1x)
TUN-VIPER-TX-DATA2	B07c (1x)
TUN-VIPER-TX-DATA3	B05c (1x)
TUN-VIPER-TX-DATA3	B07c (1x)
TUN-VIPER-TX-DATA4	B05c (1x)
TUN-VIPER-TX-DATA4	B07c (1x)
TUN-VIPER-TX-DATA5	B05c (1x)
TUN-VIPER-TX-DATA5	B07c (1x)
TUN-VIPER-TX-DATA6	B05c (1x)
TUN-VIPER-TX-DATA6	B07c (1x)
TUN-VIPER-TX-DATA7	B05c (1x)
TUN-VIPER-TX-DATA7	B07c (1x)
TUN-VIPER-TX-DATA8	B05c (1x)
TUN-VIPER-TX-DATA8	B07c (1x)
TUN-VIPER-TX-DATA9	B05c (1x)
TUN-VIPER-TX-DATA9	B07c (1x)
TXD	B10d (2x)
TXD	B12b (1x)
TXD	B16c (1x)
TXD-UP	B05e (1x)
TXD-UP	B10d (1x)
TXD-VIPER	B07a (1x)
TXD-VIPER	B10d (2x)
TXEA-	B08a (1x)
TXEA-	B08e (1x)
TXEA+	B08a (1x)
TXEA+	B08e (1x)
TXEB-	B08a (1x)
TXEB-	B08e (1x)
TXEB+	B08a (1x)
TXEB+	B08e (1x)
TXEC-	B08a (1x)
TXEC-	B08e (1x)
TXEC+	B08a (1x)
TXEC+	B08e (1x)
TXECLK-	B08a (1x)
TXECLK-	B08e (1x)
TXECLK+	B08a (1x)
TXECLK+	B08e (1x)
TXED-	B08a (1x)
TXED-	B08e (1x)
TXED+	B08a (1x)
TXED+	B08e (1x)
TXEE-	B08a (1x)
TXEE-	B08e (1x)
TXEE+	B08a (1x)
TXEE+	B08e (1x)
TXFPGAEA-_G7	B08a (1x)
TXFPGAEA-_G7	B08c (1x)
TXFPGAEA+_G6	B08a (1x)
TXFPGAEA+_G6	B08c (1x)
TXFPGAEB-_G5	B08a (1x)
TXFPGAEB-_G5	B08c (1x)
TXFPGAEB+_G4	B08a (1x)
TXFPGAEB+_G4	B08c (1x)
TXFPGAEC-_G3	B08a (1x)
TXFPGAEC-_G3	B08c (1x)
TXFPGAEC+_G2	B08a (1x)
TXFPGAEC+_G2	B08c (1x)
TXFPGAECLK-_G0	B08a (1x)
TXFPGAECLK-_G0	B08c (1x)
TXFPGAECLK+_G1	B08a (1x)
TXFPGAECLK+_G1	B08c (1x)
TXFPGAED-_R9	B08a (1x)
TXFPGAED-_R9	B08c (1x)
TXFPGAED+_R8	B08a (1x)
TXFPGAED+_R8	B08c (1x)
TXFPGAEE-_R7	B08a (1x)
TXFPGAEE-_R7	B08c (1x)
TXFPGAEE+_R6	B08a (1x)
TXFPGAEE+_R6	B08c (1x)
TXFPGAOA-_B9	B08a (1x)
TXFPGAOA-_B9	B08c (1x)
TXFPGAOA+_B8	B08a (1x)
TXFPGAOA+_B8	B08c (1x)
TXFPGAOB-_B7	B08a (1x)
TXFPGAOB-_B7	B08c (1x)
TXFPGAOB+_B6	B08a (1x)
TXFPGAOB+_B6	B08c (1x)
TXFPGAOC-_B5	B08a (1x)
TXFPGAOC-_B5	B08c (1x)
TXFPGAOC+_B4	B08a (1x)
TXFPGAOC+_B4	B08c (1x)
TXFPGAOCLK-_B2	B08a (1x)
TXFPGAOCLK-_B2	B08c (1x)
TXFPGAOCLK+_B3	B08a (1x)
TXFPGAOCLK+_B3	B08c (1x)
TXFPGAOD-_B1	B08a (1x)
TXFPGAOD-_B1	B08c (1x)
TXFPGAOD+_B0	B08a (1x)
TXFPGAOD+_B0	B08c (1x)
TXFPGAOE-_G9	B08a (1x)
TXFPGAOE-_G9	B08c (1x)
TXFPGAOE+_G8	B08a (1x)
TXFPGAOE+_G8	B08c (1x)
TXOA-	B08a (1x)
TXOA-	B08e (1x)
TXOA+	B08a (1x)
TXOA+	B08e (1x)
TXOB-	B08a (1x)
TXOB-	B08e (1x)
TXOB+	B08a (1x)
TXOB+	B08e (1x)
TXOC-	B08a (1x)
TXOC-	B08e (1x)
TXOC+	B08a (1x)
TXOC+	B08e (1x)
TXOCLK-	B08a (1x)
TXOCLK-	B08e (1x)
TXOCLK+	B08a (1x)
TXOCLK+	B08e (1x)
TXOD-	B08a (1x)
TXOD-	B08e (1x)
TXOD+	B08a (1x)
TXOD+	B08e (1x)
TXOE-	B08a (1x)
TXOE-	B08e (1x)
TXOE+	B08a (1x)
TXOE+	B08e (1x)
TXPNXA-	B05b (2x)
TXPNXA+	B05b (2x)
TXPNXB-	B05b (2x)
TXPNXB+	B05b (2x)
TXPNXC-	B05b (2x)
TXPNXC+	B05b (2x)
TXPNXCLK-	B05b (2x)
TXPNXCLK+	B05b (2x)
TXPNXD-	B05b (2x)
TXPNXD+	B05b (2x)
TXPNXE-	B05b (2x)
TXPNXE+	B05b (2x)
UART-SWITCH	B05e (2x)
UART-SWITCH	B10d (1x)
UART-SWITCHn	B10d (2x)
UDQS	B06b (2x)
UP-3V3	B05f (2x)
USB11-1-DM	B07a (1x)
USB11-1-DM	B12a (1x)
USB11-1-DP	B07a (1x)
USB11-1-DP	B12a (1x)
USB11-2-DM	B07a (1x)
USB11-2-DM	B12a (1x)
USB11-2-DP	B07a (1x)
USB11-2-DP	B12a (1x)
USB11-BUS-PW	B07a (1x)
USB11-BUS-PW	B12a (1x)
USB11-OVERCUR	B07a (1x)
USB11-OVERCUR	B12a (1x)
USB-1-DM	B12a (2x)
USB-1-DM	B16e (1x)
USB-1-DP	B12a (2x)
USB-1-DP	B16e (1x)
USB-2-DM	B12a (2x)
USB-2-DM	B16e (1x)
USB-2-DP	B12a (2x)
USB-2-DP	B16e (1x)
USB-BUS-PW	B12a (2x)
USB-BUS-PW	B16e (1x)
USB-BUS-PW2	B12a (1x)
USB-BUS-PW2	B16e (1x)
USB-OVERCUR	B12a (3x)
USB-OVERCUR	B16e (1x)
USB-OVERCUR2	B12a (1x)
USB-OVERCUR2	B16e (1x)
U-VOLT-DETECT	B15a (3x)
VCC_EXTO	B10a (4x)
VCCEN	B10a (2x)
VDISP	B08a (1x)
VDISP	B08f (1x)
VN1	B15a (4x)
VN2	B15b (2x)
VP1	B15a (4x)
VP2	B15b (2x)
VPPEN	B10a (3x)
VREF-AUD-POS	B04b (2x)
VREF-AUD-POS	B05a (1x)
VREFD-DDR	B07b (3x)
VREF-DDR-1V25	B05d (2x)
VREF-DDR-PNX	B05d (2x)
VREF-DDR-VPR	B07b (2x)
VREFS	B06b (5x)
VREF-VPR	B07c (2x)
VS1	B10a (3x)
VS2	B10a (3x)
VS2_MOCLKA-CI	B10a (2x)
VSW	B01a (3x)
VSW	B01b (1x)
V-SYNC-VGA	B09b (1x)
V-SYNC-VGA	B11a (1x)
WAITA	B10a (3x)
WE	B06b (2x)
WE	B10a (2x)
WRITE	B08e (1x)
WRITE	B08g (2x)
XIO-A0_CLE	B10c (1x)
XIO-A0_CLE	B10d (1x)
XIO-A0_CLE	B14b (2x)
XIO-A1_ALE	B10c (1x)
XIO-A1_ALE	B10d (1x)
XIO-A1_ALE	B14a (2x)
XIO-A1_ALE	B14b (2x)
XIO-A10	B10c (1x)
XIO-A10	B14a (1x)
XIO-A10	B14b (2x)
XIO-A11	B10c (1x)
XIO-A11	B14a (1x)
XIO-A11	B14b (2x)
XIO-A12	B10c (1x)
XIO-A12	B14a (1x)
XIO-A12	B14b (2x)
XIO-A13	B10c (1x)
XIO-A13	B14a (1x)
XIO-A13	B14b (2x)
XIO-A14	B10c (1x)
XIO-A14	B14a (1x)
XIO-A14	B14b (2x)
XIO-A15	B14a (1x)
XIO-A15	B14b (2x)
XIO-A16_D8	B10d (1x)
XIO-A16_D8	B14b (2x)
XIO-A17_D9	B10d (1x)
XIO-A17_D9	B14b (2x)
XIO-A18_D10	B10d (1x)
XIO-A18_D10	B14b (2x)
XIO-A19_D11	B10d (1x)
XIO-A19_D11	B14b (2x)
XIO-A2	B10c (1x)
XIO-A2	B14b (1x)
XIO-A20_D12	B10d (1x)
XIO-A20_D12	B14b (2x)
XIO-A21_D13	B10d (1x)
XIO-A21_D13	B14b (2x)
XIO-A22_D14	B10d (1x)
XIO-A22_D14	B14b (2x)
XIO-A23_D15	B10d (1x)
XIO-A23_D15	B14b (2x)
XIO-A3	B10c (1x)
XIO-A3	B14b (1x)
XIO-A4	B10c (1x)
XIO-A4	B14b (1x)
XIO-A5	B10c (1x)
XIO-A5	B14b (1x)
XIO-A6	B10c (1x)
XIO-A6	B14b (1x)
XIO-A7	B10c (1x)
XIO-A7	B14b (1x)
XIO-A8	B10c (1x)
XIO-A8	B14b (1x)
XIO-A9	B10c (1x)
XIO-A9	B14b (1x)
XIO-ACK	B07a (1x)
XIO-ACK	B10d (2x)
XIO-AS_REn	B10a (1x)
XIO-AS_REn	B10d (2x)
XIO-AS_REn	B14a (1x)
XIO-AS_REn	B14b (1x)
XIO-D0	B14a (1x)
XIO-D0	B14b (2x)
XIO-D1	B14a (1x)
XIO-D1	B14b (2x)
XIO-D10	B07a (1x)
XIO-D10	B14a (1x)
XIO-D11	B07a (1x)
XIO-D11	B14a (1x)
XIO-D12	B07a (1x)
XIO-D12	B14a (1x)
XIO-D13	B07a (1x)
XIO-D13	B14a (1x)
XIO-D14	B07a (1x)
XIO-D14	B14a (1x)
XIO-D15	B07a (1x)
XIO-D15	B14a (1x)
XIO-D2	B14a (1x)
XIO-D2	B14b (2x)
XIO-D3	B14a (1x)
XIO-D3	B14b (2x)
XIO-D4	B14a (1x)
XIO-D4	B14b (2x)
XIO-D5	B14a (1x)
XIO-D5	B14b (2x)
XIO-D6	B14a (1x)
XIO-D6	B14b (2x)
XIO-D7	B14a (1x)
XIO-D7	B14b (2x)
XIO-D8	B07a (1x)
XIO-D8	B14a (1x)
XIO-D9	B07a (1x)
XIO-D9	B14a (1x)
XIO-RWn_WEn	B10a (1x)
XIO-RWn_WEn	B10d (1x)
XIO-RWn_WEn	B14a (2x)
XIO-RWn_WEn	B14b (1x)
XIO-SEL0	B07a (2x)
XIO-SEL0	B10d (3x)
XIO-SEL0	B14b (1x)
XIO-SEL1	B07a (1x)
XIO-SEL1	B14a (1x)
XIO-SEL1	B14b (1x)
XIO-SEL2	B07a (1x)
XIO-SEL2	B10a (1x)
Y-CVBS-MON-OUT	B16c (2x)

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SRP: Direction for Use

1.1. Introduction

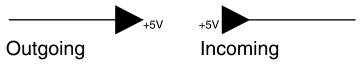
SRP (Service Reference Protocol) is a software tool that creates a list with all references to signal lines. The list contains references to the signals within all schematics of a PWB. It replaces the text references currently printed next to the signal names in the schematics. These printed references are created manually and are therefore not guaranteed to be 100% correct. In addition, in the current crowded schematics there is often none or very little place for these references.
Some of the PWB schematics will use SRP while others will still use the manual references. Either there will be an SRP reference list for a schematic, or there will be printed references in the schematic.

1.2. Non-SRP Schematics

There are several different signals available in a schematic:

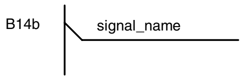
1.2.1. Power Supply Lines

All power supply lines are available in the supply line overview (see chapter 6). In the schematics (see chapter 7) is not indicated where supplies are coming from or going to.
It is however indicated if a supply is incoming (created elsewhere), or outgoing (created or adapted in the current schematic).



1.2.2. Normal Signals

For normal signals, a schematic reference (e.g. B14b) is placed next to the signals.

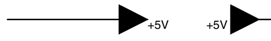


1.2.3. Grounds

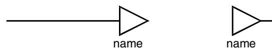
For normal and special grounds (e.g. GNDHOT or GND3V3 etc.), nothing is indicated.

1.3. SRP Schematics

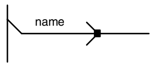
SRP is a tool, which automatically creates a list with signal references, indicating on which schematic the signals are used.
A reference is created for all signals indicated with an SRP symbol, these symbols are:



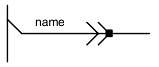
Power supply line.



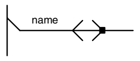
Stand alone signal or switching line (used as less as possible).



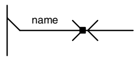
Signal line into a wire tree.



Switching line into a wire tree.



Bi-directional line (e.g. SDA) into a wire tree.



Signal line into a wire tree, its direction depends on the circuit (e.g. ingoing for PDP, outgoing for LCD sets).

Remarks:

- When there is a black dot on the "signal direction arrow" it is an SRP symbol, so there will be a reference to the signal name in the SRP list.
- All references to normal grounds (Ground symbols without additional text) are not listed in the reference list, this to keep it concise.
- Signals that are not used in multiple schematics, but only once or several times in the same schematic, are included in the SRP reference list, but only with one reference.

Additional Tip:

When using the PDF service manual file, you can very easily search for signal names and follow the signal over all the schematics. In Adobe PDF reader:

- Select the signal name you want to search for, with the "Select text" tool.
- Copy and paste the signal name in the "Search PDF" tool.
- Search for all occurrences of the signal name.
- Now you can quickly jump between the different occurrences and follow the signal over all schematics. It is advised to "zoom in" to e.g. 150% to see clearly, which text is selected. Then you can zoom out, to get an overview of the complete schematic.

PS. It is recommended to use at least Adobe PDF (reader) version 6.x, due to better search possibilities in this version.

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Layout SSB (Top Side Mapping)

1735	F2
1736	F1
1738	F1
1A33	D3
1A53	D3
1B01	A6
1B02	A5
1C33	C3
1C53	C3
1D10	E1
1D42	F7
1E45	A1
1E50	A1
1F00	E7
1F01	E5
1F02	E8
1G50	F5
1H00	C6
1H01	E6
1I00	B4
1I01	A3
1I02	A4
1I09	A3
1I10	A3
1I11	A5
1LA0	B5
1LA1	D5
1M01	C1
1M02	F2
1M03	F8
1M15	A1
1M17	F7
1M21	D1
1M36	D1
1M46	F9
1M52	F4
1M59	F8
1M70	E1
1M71	E1
1N00	C9
1N01	B9
1N02	C9
1N03	C9
1N04	C9
1O00	A6
1O10	A7
1P01	A9
1T03	A3
1T04	A1
1T05	A3
1T06	A3
1W05	D2
1W06	D2
1Z05	A7
1Z10	A8
1Z11	A7
2A01	D4
2A10	D4
2A25	D4
2A29	D3
2A42	D4
2A45	D3
2A52	D3
2A77	D4
2A80	D3
2A83	D3
2A86	D3
2A88	B4
2A89	B4
2A93	B3
2A96	B3
2A97	B3
2A99	B3
2B03	A5
2B04	A6
2B05	A6
2B06	A5
2B07	A5
2B08	A5
2B09	A5
2B10	A5
2B11	A5
2B14	A5
2B15	A5
2B16	A5
2B17	A5
2B18	A5
2B19	A5
2B21	A5
2B22	A5
2B23	A5
2B24	A5
2B25	A5
2B26	A5
2B27	A5
2B28	A5
2B29	A5
2B30	A5
2B31	A5
2B32	A5
2B33	A5
2B34	A5
2B35	A5
2B36	A5
2B38	A6
2B39	A6
2B40	A5
2B41	A5
2B42	A5
2B49	A5
2B51	A5
2B52	A5
2B53	A5
2B62	A6
2B64	A5
2B67	A5
2B69	A5
2B77	A5
2B79	A5
2B80	A5
2B81	A6
2B90	A5
2B92	A5
2C01	C4
2C32	B4
2C33	D3
2C34	D3
2C37	D3
2C38	D3
2C39	D3
2C42	C4
2C45	D3
2C46	D3
2C47	D3
2C48	D3
2C49	D3
2C52	C3
2C53	C3
2C56	C3
2C59	B3
2C60	B3
2C61	C4
2C62	B3
2C64	B3
2C73	B3
2C84	C3
2C85	C3
2C86	C3
2D00	E2
2D01	F2
2D02	E2
2D03	F2
2D09	E2
2D10	E2
2D12	E2
2D13	E1
2D14	E1
2D15	E2
2D16	E2
2D19	E1
2D20	F1
2D21	F2
2D33	E2
2D35	E2
2D36	F1
2D38	F2
2D39	F2
2D46	F2
2D47	E2
2D48	E2
2D50	E1
2D51	D1
2D52	E2
2D53	D2
2D56	E1
2D57	E1
2D58	E2
2D70	E2
2D72	E1
2D73	E1
2D74	E2
2D75	E2
2D76	E2
2D83	E1
2D84	E1
2D85	F2
2D86	E1
2D88	F1
2D89	F1
2D90	F1
2D91	D1
2D92	D1
2D93	D1
2D94	D1
2D95	D2
2D96	D2
2D99	D2
2DA1	D2
2DA2	D1
2DA3	D2
2DD1	E2
2DD2	E2
2DH3	E2
2DH4	E2
2DH6	E1
2DH7	F3
2DH9	D2
2F0Q	F7
2F0R	E7
2F0S	E7
2F0T	E7
2F0U	E6
2F0Y	E6
2F0Z	E6
2F10	E6
2F11	E6
2F12	E6
2F13	E6
2F14	E6
2F15	E6
2F17	E6
2F18	E6
2F19	E6
2F1A	E6
2F1B	E6
2F1C	E6
2F1D	E6
2F1E	E6
2F1F	E6
2F1H	E6
2F1I	E6
2F1J	E6
2F1K	E6
2F1L	E6
2F1M	E6
2F1N	E6
2F1P	E6
2F1Q	E6
2F1R	E6
2F1S	E6
2F1T	E6
2F1U	E6
2F1V	E6
2F1W	E6
2F1Y	E6
2F1Z	E6
2F20	E6
2F21	E6
2F22	E6
2F23	E6
2F24	E6
2F25	E6
2F26	E6
2F27	E6
2F28	E6
2F29	E6
2F2C	E6
2F2D	F7
2F2I	F5
2F2K	F4
2F2L	F4
2F2M	E8
2F2N	E8
2F2P	F7
2F2Q	F7
2F2R	E5
2F30	E5
2F31	E5
2F32	E5
2F33	E5
2F34	E5
2F35	E5
2F36	E5
2F37	E5
2F38	E5
2F39	E4
2F3A	E5
2F3B	E5
2F3C	E5
2F3D	D7
2F3E	D7
2F3F	D7
2F3G	E5
2F3H	E5
2F3I	E5
2F3J	E5
2F3K	E5
2F3L	E5
2F3M	E5
2F3N	E5
2F3P	E5
2F3Q	E5
2F3R	E5
2F3S	E5
2F3T	E5
2F40	E7
2F43	E7
2F44	E7
2F47	E6
2F48	E5
2F49	E5
2F4A	E5
2F4B	E5
2F4C	E5
2F4D	E5
2F4E	D7
2F4F	D6
2F4G	D6
2F4H	D7
2F4J	E5
2F4K	E5
2F4L	E5
2F4M	E5
2F4N	E5
2F4P	E5
2F4Q	E5
2F4T	E5
2F4U	D7
2F4Z	E7
2F50	E7
2F51	E7
2F53	E6
2F54	E7
2F55	E8
2F57	E7
2F59	E7
2F5D	E8
2F60	E7
2F62	E7
2F63	E8
2F64	E8
2F65	E7
2F66	E8
2F67	E8
2F68	E7
2F69	E8
2F6A	E6
2F6B	E6
2F70	E8
2F72	E8
2F73	E7
2F75	E7
2F77	E8
2F78	E7
2F79	E7
2F80	E8
2F81	E8
2F82	E8
2F83	E8
2F84	E7
2F85	E7
2H01	C7
2H04	B6
2H06	B7
2H07	B7
2H08	C6
2H09	C6
2H10	B6
2I01	A4
2I02	A5
2I05	A3
2I06	A3
2I07	A3
2I08	A3
2I09	B4
2I10	A4
2I60	A4
2I61	A4
2I62	A4
2I80	A4
2I81	A4
2I83	A4
2J01	B4
2J03	C5
2J06	C5
2J08	C5
2J10	C5
2J13	C5
2J16	C5
2J18	C5
2J20	C5
2J22	B4
2J23	B4
2J24	B5
2J25	B5
2K58	B4
2K60	C4
2K61	B4
2K63	B4
2K67	B3
2K68	B4
2K69	B4
2K71	B4
2K72	B4
2K75	B4
2K76	B4
2K77	B4
2L06	C5
2L08	B6
2L11	B5
2L12	B5
2L13	B5
2L14	B5
2L15	B5
2L16	C5
2L17	C5
2L18	C5
2L19	C5
2L20	C5
2L21	C5
2L22	C5
2L23	C5
2L54	C5
2L59	C5
2L60	C5
2L61	C5
2L64	C5
2L65	D5
2L69	D5
2L73	C5
2L74	C5
2LA0	B5
2LA1	B5
2LA2	B5
2LA4	B5
2LA5	B4
2LA6	B4
2LA7	B4
2LA8	B4
2LA9	B4
2LB0	B5
2LB1	B6
2LB3	B5
2LB4	B5
2LC0	B5
2LC1	C5
2LC2	B5
2LC3	B5
2LC4	B5
2LC5	B5
2LC6	C5
2LC7	C5
2LC8	C5
2LC9	C5
2LD0	C5
2LD1	C5
2LD2	C6
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3R64	E4
3R67	E4
3R68	E4
3R70	E3
3R71	E4
3R72	E4
3R73	E3
3R74	E3
3R75	E3
3R77	E4
3R78	E3
3R88	E4
3R89	E4
3R90	F3
3R91	F3
3R92	F3
3R93	F3
3R94	F3
3T08	A1
3U1H	E9
3U26	E9
3U35	C9
3U36	C9
3V25	D8
3V41	D7
3V44	D7
3V47	D7
3V48	D8
3V78	C7
3Z01	A8
3Z07	A7
3Z08	A7
3Z12	A8
3Z13	A8
3Z18	A7
3Z20	A8
3Z21	A8
3Z22	A8
3Z23	A8
3Z24	A7
3Z25	A7
3Z26	A7
3Z27	A7
3Z28	A7
3Z29	A7
3Z30	A7
3Z31	A7
3Z32	A8
3Z33	A8
3Z34	A8
3Z35	A7
3Z37	A7
3Z38	A7
3Z39	A8
3Z40	A7
3Z41	A7
3Z42	A7
3Z43	A7
3Z44	A7
3Z45	A7
3Z46	A7
3Z49	A7
3Z51	A7
5A02	D4
5A03	D4
5A33	D4
5A70	D3
5B01	A6
5B03	A5
5B04	A5
5B05	A5
5B07	A5
5B08	A5
5B09	A5
5B10	A5
5B11	A5
5B12	A6
5B13	A5
5B17	A5
5B18	A5
5C33	C3
5C34	C3
5C52	C3
5C53	C3
5C54	B3
5C55	C4
5C56	B3
5C58	B3
5C70	C3
5D01	E1
5D10	E1
5D11	E2
5D13	F1
5D14	E2
5D16	F1
5D17	F2
5D20	D1
5D21	D2
5D23	D1
5D24	E2
5D26	E1
5D27	E2
5F00	F5
5F01	F5
5F02	F5
5F03	F5
5F04	F5
5F05	F4
5F06	F5
5F07	F5
5F08	F5
5F09	F5
5F0A	F5
5F0B	F5
5F0D	E6
5F0H	F7
5F0I	F7
5F0J	F7
5F0K	F5
5F0L	F5
5F0M	F5
5F0N	E5
5F0P	E5
5F0Q	E5
5F0R	E5
5F0S	E5
5F0U	F5
5F0V	F5
5F10	E5
5F11	E5
5F22	E6
5F23	E6
5F30	E7
5F62	E8
5J00	C5
5J01	C5
5J02	B5
5J03	C5
5J04	C5
5J05	C5
5J06	C5
5J07	C5
5L50	C5
5L51	C5
5L52	C5
5LA1	B6
5LA2	B5
5LA3	B5
5LA4	C5
5LA5	C5
5LA6	C5
5LA7	C5
5LA8	C5
5LN0	C5
5LN1	B5
5LN2	B5
5LN4	B4
5M06	F8
5M09	F6
5M0A	F6
5M10	B1
5M40	F9
5M41	F9
5M42	F9
5M43	F9
5M44	F9
5M45	F9
5M46	F9
5M47	F9
5M48	F9
5M49	F9
5M4A	F9
5N00	C9
5N01	B9
5O00	A6
5O01	A6
5Q01	C7
5Q02	C7
5Q03	C7
5Q04	B7
5Q05	B7
5R00	E4
5R01	E4
5R02	E4
5R03	E4
5R04	E4
5R05	E4
5U00	C9
5U01	F9
5U02	D9
5U03	D9
5U04	E9
5U05	C9
5U06	D9
5U07	C9
5U08	C9
5U09	C9
5U0A	D9
5U0B	D9
5U0C	D9
5U0D	D9
5U40	E9
5U60	C8
5U61	D8
5U62	D9
5U63	D9
5Z00	A8
5Z01	A7
5Z02	A8
5Z05	A8
5Z06	A8
5Z07	A7
5Z08	A7
5Z50	A7
6D11	E2
6D80	F3
6F01	F5
6F03	E5
6F06	E5
6F07	E5
6F62	E8
6H00	B7
6H01	C8
6H03	B7
6I01	A5
6I02	A4
6I03	A5
6I04	A5
6I05	A3
6I06	A3
6J07	B6
6J08	B6
6O00	A6
6O01	A6
6U12	E9
7A00	D4
7A01	D4
7A03	B3
7A04	B3
7B03	A6
7B06	A6
7C00	C4
7C01	C4
7C02	C4
7C05	D3
7C06	D3
7D09	E2
7D12	E2
7D33	D2
7F01	E7
7F02	E7
7F04	E7
7F08	E8
7F09	F7
7F10	E6
7F11	E8
7F12	E8
7F13	E5
7F14	D6
7F15	D6
7F17	D7
7F19	E6
7F21	E7
7F25	F4
7F58	E8
7F60	E7
7F62	E8
7F64	F8
7I01	A3
7I02	A3
7J01	B6
7J02	B6
7L50	D5
7L51	B6
7L52	B6
7LA3	B5
7LA7	B5
7LB8	B5
7LB9	B5
7M10	B1
7M11	B1
7M12	B1
7M40	B1
7M80	A5
7M81	A5
7M84	A5
7M85	A5
7M86	A5
7M87	A5
7R04	D3
7R10	F3
7R11	F4
7R12	F3
7U01	D9
7U02	E9
7U03	E9
7U61	D9
7V01	D8
7V02	D7
7V05	B6
7V10	B6
7Z01	A7
9A10	B4
9A11	B4
9A12	B4
9A13	B4
9A14	B4
9A15	B4
9A16	B4
9A17	B4
9A18	B4
9A19	B4
9A20	B4
9A24	B4
9A55	D3
9B00	A6
9B11	A6
9B12	A5
9B13	A5
9B14	A5
9B15	A5
9B16	A6
9B17	A6
9B20	A5
9B21	A5
9B22	A5
9B23	A5
9B30	A5
9C01	D3
9C03	D3
9C08	D3
9C09	D3
9C55	B3
9D01	F3
9F13	E6
9F14	E6
9F15	E6
9F16	E6
9F17	E5
9F18	E7
9F21	E7
9F29	E5
9F2F	E7
9F2G	E7
9F2H	F6
9F2J	E8
9F2K	E7
9F2N	F7
9F2P	F7
9F2R	E7
9F2S	F7
9F30	E5
9F31	E5
9F32	E5
9F33	E5
9F34	E5
9F35	E5
9F36	E7
9F37	E7
9F38	E7
9F39	E7
9F40	E7
9F41	E8
9F42	E7
9F43	E7
9F44	E7
9F45	E7
9F46	E7
9F47	E7
9F48	E7
9F49	E7
9F50	E7
9F51	E7
9F52	E7
9F53	E7
9H03	C7
9H04	C7
9H05	B6
9H06	C6
9H07	C6
9H08	C6
9H09	B7
9H13	C6
9H15	B8
9H16	C7
9H18	B7
9H19	B7
9H20	B7
9H26	B7
9H27	C7
9H29	C7
9H30	B7
9H32	B7
9H33	B7
9H34	B7
9J22	B4
9J24	C4
9L04	B6
9L09	B5
9L10	B5
9L11	B5
9L12	B5
9LA0	B5
9LA1	B5
9LA2	B5
9LA3	B5
9LA6	B5
9LC7	B5
9M02	F6
9M03	F6
9M04	F6
9M05	F6
9M10	B1
9M11	B1
9M12	B1
9M21	B8
9M22	B8
9M40	F9
9M41	F9
9M60	D6
9M61	D6
9M62	D6
9M63	D6
9M64	D6
9M65	D6
9M66	D6
9M67	D6
9M68	D6
9M80	A5
9M88	B2
9M8A	B2
9M8B	B2
9M8C	B2
9M8D	B2
9M8G	B2
9M8H	B2
9M8I	B2
9M8J	B2
9M90	B1
9M91	B1
9N01	C9
9N02	C8
9N04	B9
9N05	C8
9N06	B9
9N07	B9
9N08	C8
9N09	C8
9N12	C8
9N14	C9
9O16	A7
9R01	E3
9R02	E4
9R06	E4
9R08	D3
9U07	C9
9U08	E9
9U09	E9
9U10	E9
9U11	D9
9U12	D9
9U40	E8
9U41	E8
9W33	B2
9W34	B2
9Y02	B3
9Y03	B3
9Y04	B3
9Y06	B3
9Y07	B3
9Z51	A7
9Z52	A7
9Z53	A7
9Z54	A7
9Z55	A7
9Z56	A7
9Z57	A7
9Z58	A7
9Z60	A7
9Z61	A7
9Z62	A7
9Z63	A7
9Z64	A7
9Z65	A7
9Z66	A7
9Z67	A7
9Z70	A7
9Z71	A7
9Z72	A7
9Z73	A7
9Z74	A7
9Z75	A7
9Z76	A7
9Z77	A7

G_15990_063m.eps
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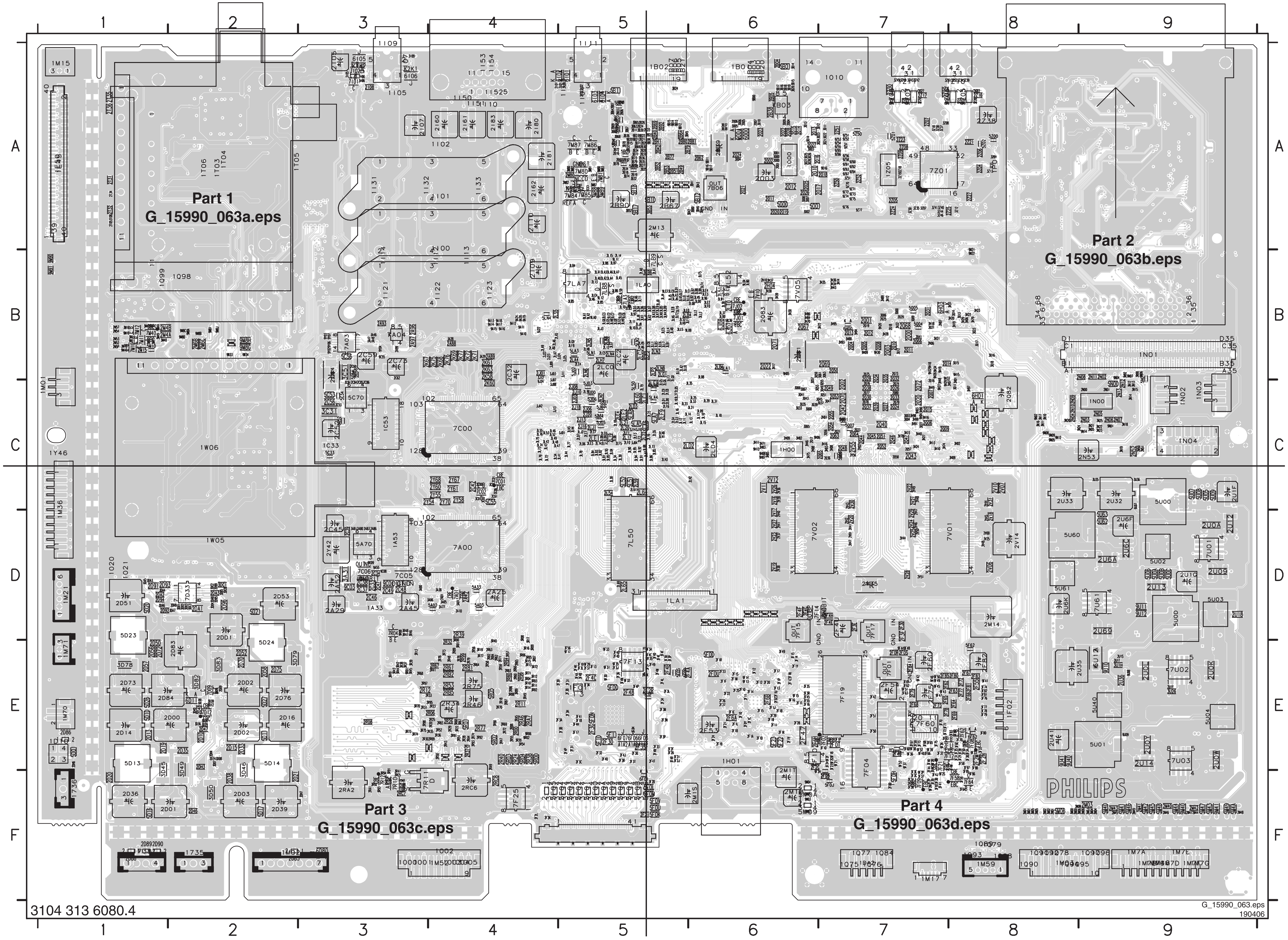
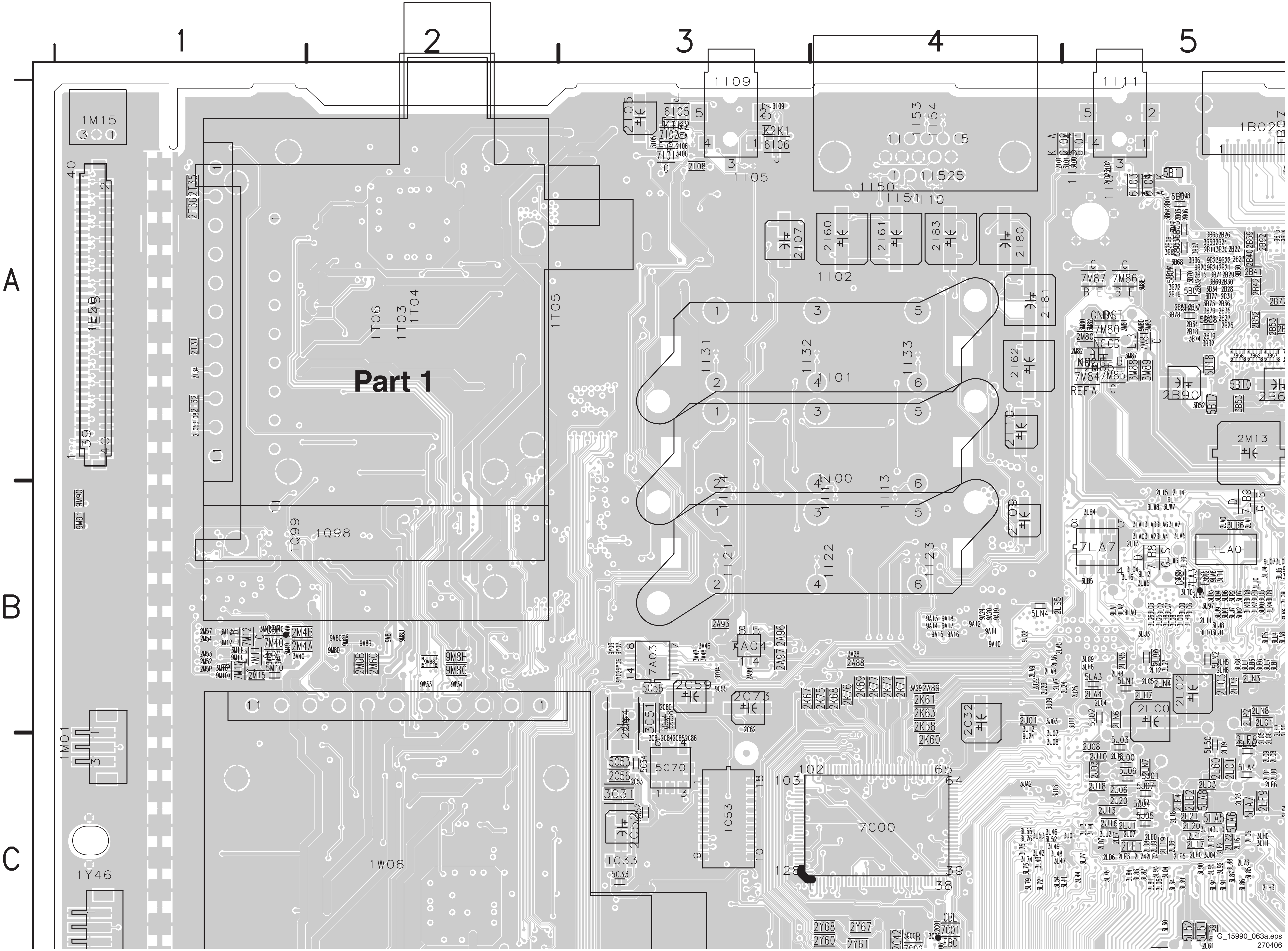
Layout SSB (Top Side Overview)

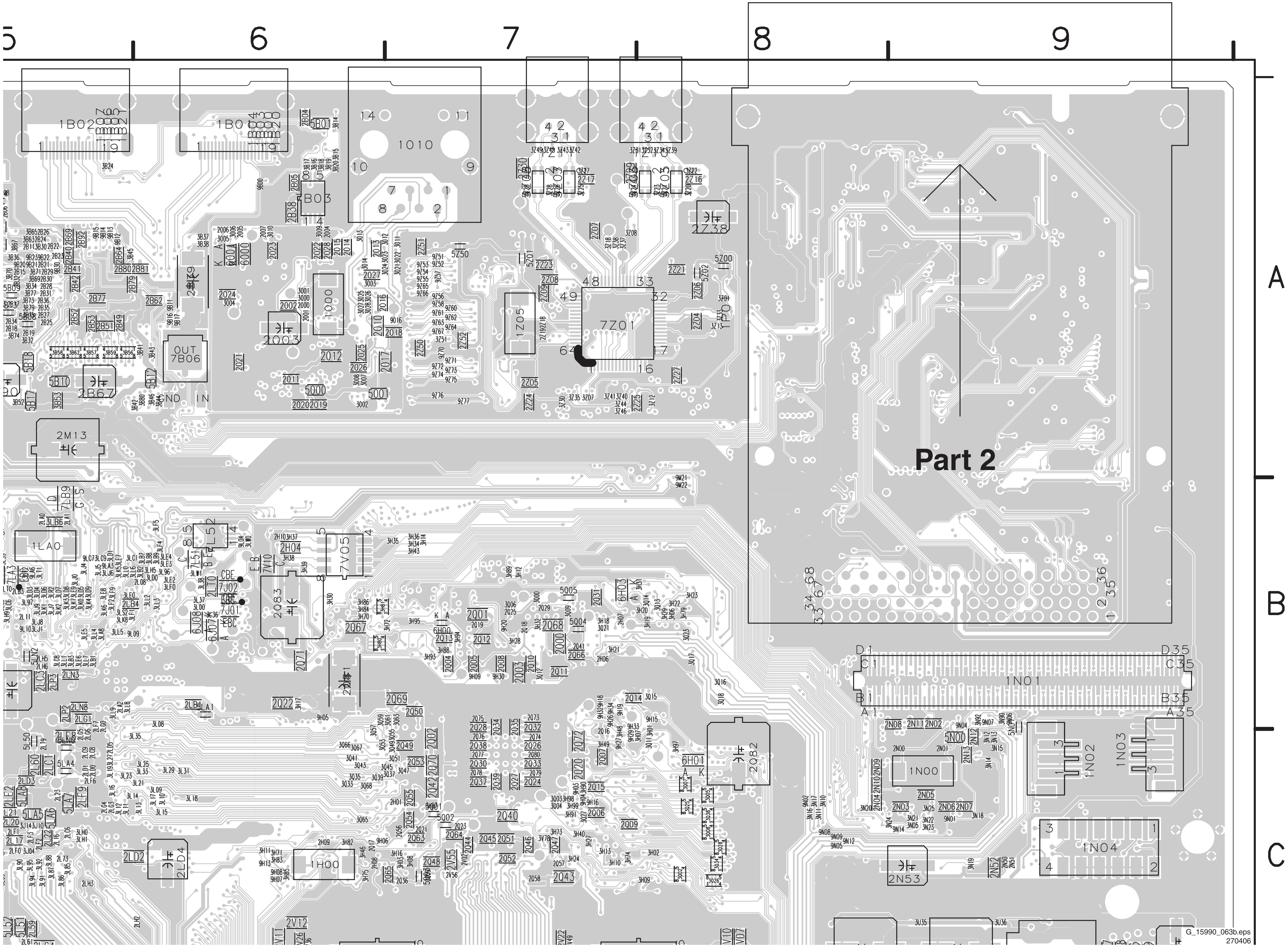

1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
Part 1
G_15990_063a.eps
Part 2
G_15990_063b.eps
Part 3
G_15990_063c.eps
Part 4
G_15990_063d.eps
PHILIPS
3104 313 6080.4

G_15990_063.eps
190406

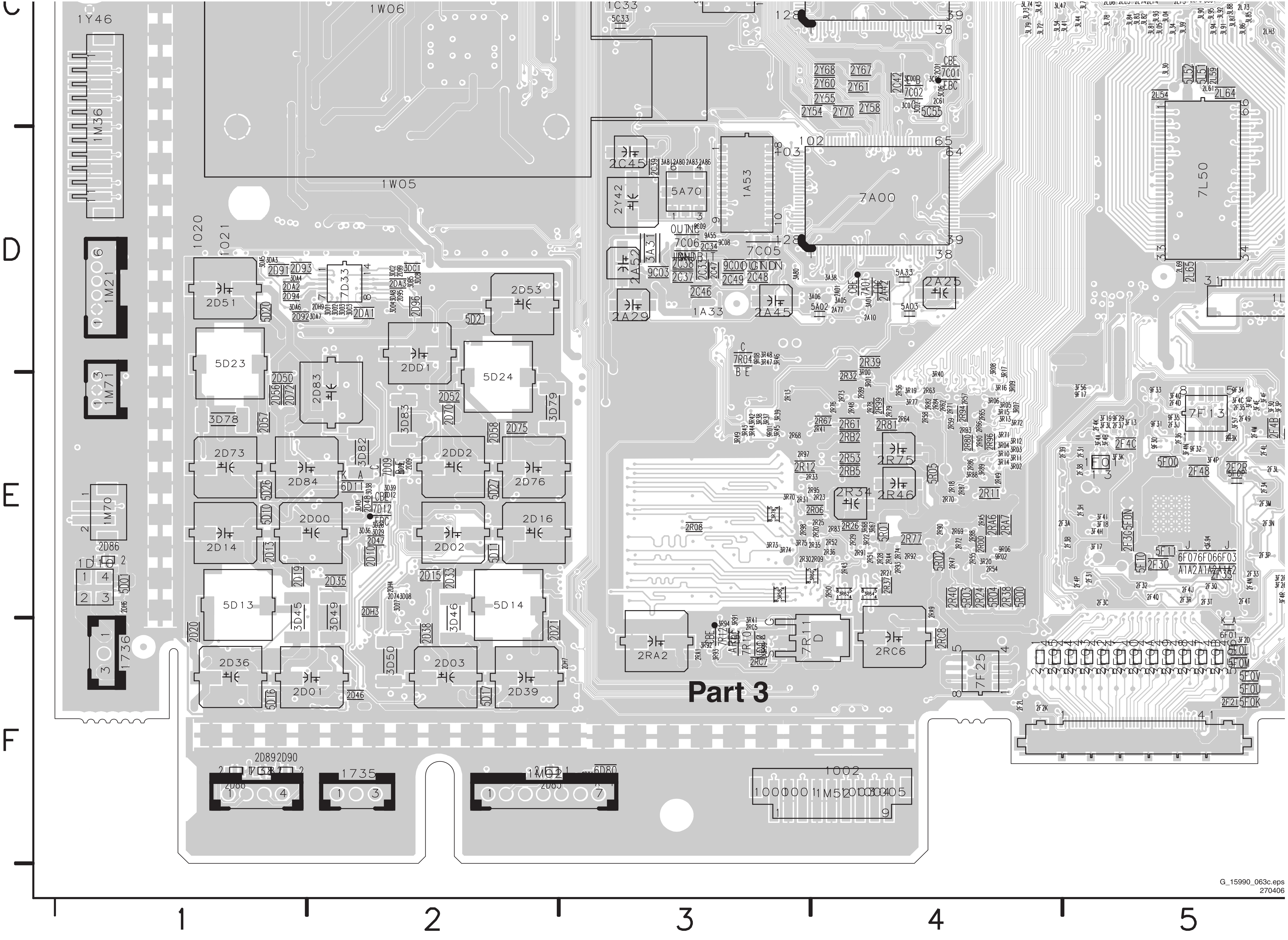
Layout SSB (Top Side Part 1)


1
2
3
4
5
A
B
C
Part 1
1M15
1E49
1Q99
1Q98
1T03
1T04
1T05
1T06
1109
1105
1111
1153
1154
1150
1151
1110
1102
1101
1100
1131
1132
1133
1121
1122
1123
1B02
2M13
7LA7
1LA0
7A03
7A04
1C53
7C00
5C70
1W06
1M01
1Y46
G_15990_063a.eps
270406

Layout SSB (Top Side Part 2)


5
6
7
8
9
A
B
C
1B02
1B04
1010
7Z01
7B06
Part 2
1N01
1N00
1N02
1N03
1N04
2M13
1LA0
2083
2082
1H00
7V05
2Z38
2003
2B67
2N53
D1
D35
C1
C35
B1
B35
A1
A35
G_15990_063b.eps
270406

Layout SSB (Top Side Part 3)


C
D
E
F
1
2
3
4
5
Part 3
1Y46
1M36
1M21
1M71
1M70
1736
1W06
1W05
1020
1021
1C33
5C33
2C45
2Y42
5A70
1A53
7A00
7L50
7C05
7C06
1A33
2A29
2A45
2A25
2A52
3A31
9C03
2C37
2C38
2C46
2C48
2C49
9C00
2Y68
2Y67
2Y60
2Y61
2Y55
2Y54
2Y70
2Y58
2C42
7C01
7C02
5C55
2L54
2L64
5L52
5L51
2L59
2L65
2D51
2D53
7D33
2D91
2D93
2D94
2D92
2DA1
5D20
5D21
2D96
5D23
5D24
2DD1
2D83
2D50
2D56
2D72
3D78
3D83
3D79
2D52
2D70
2D57
2D58
2D75
2D73
2D84
3D82
2DD2
2D76
6D11
7D09
7D12
2D00
2D14
2D02
2D16
5D10
5D13
5D14
3D45
3D49
3D46
2D35
2D15
2D33
2D19
2D21
2D20
2D36
2D01
2D03
2D39
3D50
2D38
2D46
5D16
5D17
2D86
1D16
5D01
2D89
2D90
1735
1M02
6D80
1002
2RA2
7R11
2RC6
2RC7
2RC8
7R10
7R12
2R39
2R32
2R61
2RB2
2R81
2R75
2R53
2RB5
2R12
2R34
2R46
2R11
2R67
2R08
2R06
2R26
2R77
2R40
2RA6
2RA7
5R01
5R02
5R05
7F13
7F25
2F48
2F4C
2F4B
2F30
5F11
5F00
5F0V
5F0U
5F0K
5F0M
2F21
6F01
2F35
5F10
2E2R
2F4O
2F3M

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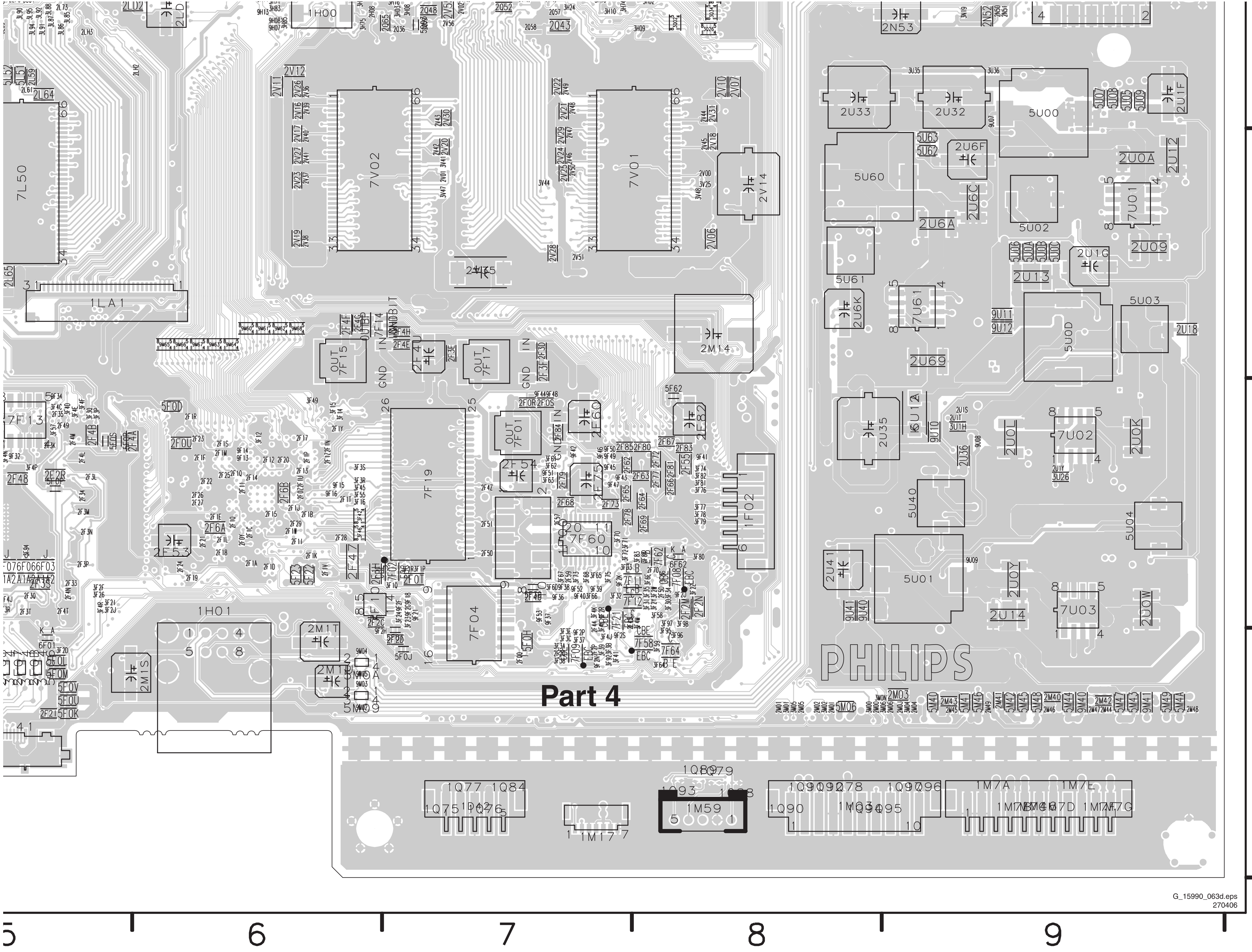
Layout SSB (Top Side Part 4)


Part 4
7L50
1LA1
7V02
7V01
2V14
7F19
7F04
7F60
1F02
2M14
1H01
1H00
2U33
2U32
5U00
5U60
5U02
7U01
7U61
5U0D
5U03
2U35
7U02
5U40
5U04
5U01
7U03
PHILIPS
1M59
1M17
C
D
E
F
5
6
7
8
9

G_15990_063d.eps
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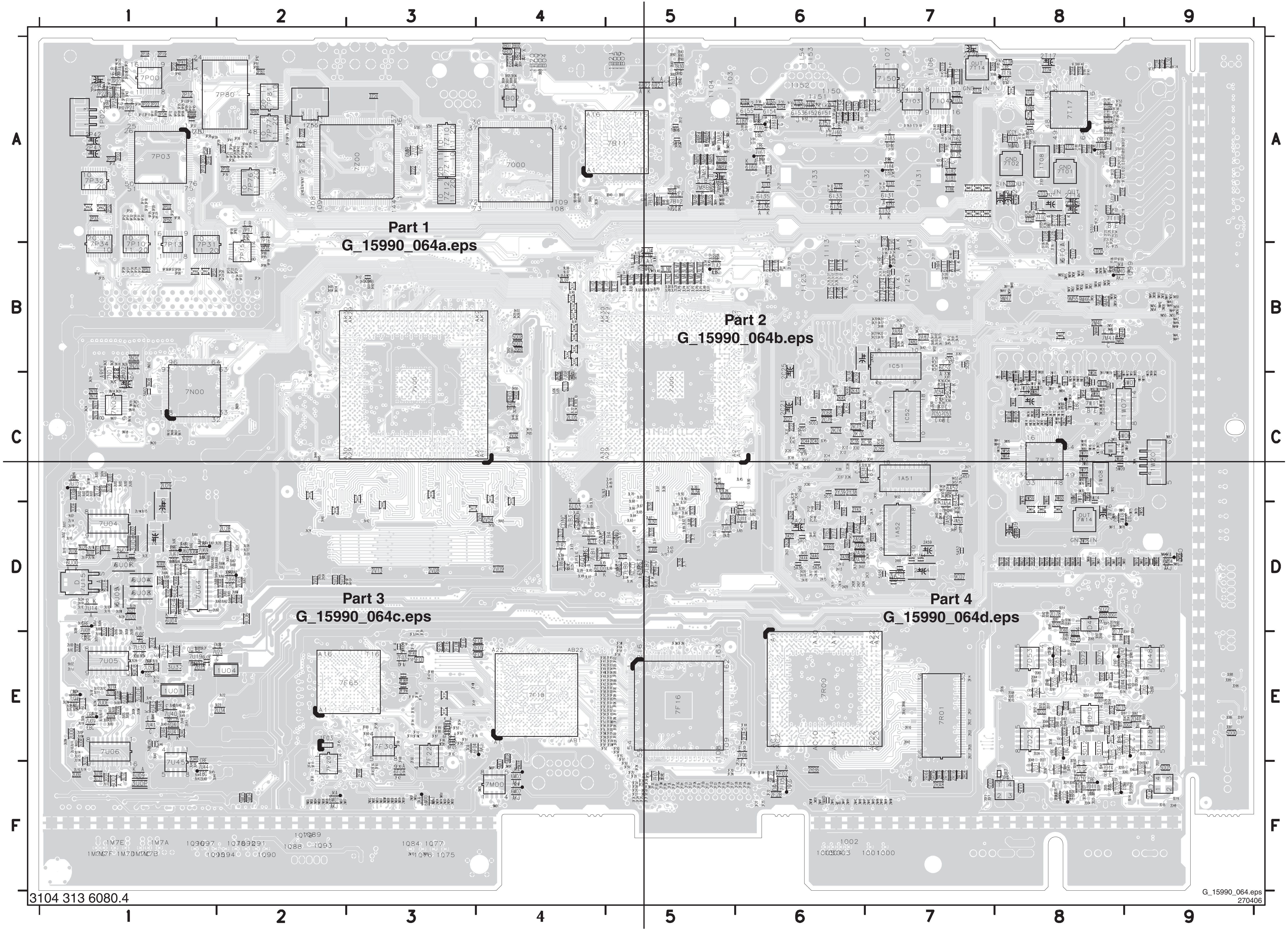
Layout SSB (Overview Bottom Side)


1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
Part 1
G_15990_064a.eps
Part 2
G_15990_064b.eps
Part 3
G_15990_064c.eps
Part 4
G_15990_064d.eps
3104 313 6080.4

G_15990_064.eps
270406

Layout SSB (Bottom Side Mapping)

1A51	C7
1A52	D7
1C51	B7
1C52	C7
1D11	F8
1D12	F9
1F03	E2
1P02	A1
1T08	A8
1U01	E1
1U04	E2
1W07	C9
1W08	C8
1W20	C9
1Z55	A2
2A02	D6
2A03	C6
2A06	D6
2A07	D6
2A08	D6
2A09	D6
2A11	D6
2A12	D6
2A13	D6
2A14	D6
2A15	D6
2A16	D6
2A17	D6
2A18	D6
2A19	D6
2A20	D6
2A21	D6
2A22	D6
2A23	D6
2A24	D7
2A27	D6
2A28	D6
2A30	D6
2A31	D6
2A33	D7
2A35	D6
2A36	D6
2A39	D6
2A40	D6
2A44	D6
2A50	C7
2A53	D7
2A54	D7
2A55	D6
2A56	D6
2A57	D7
2A59	D7
2A60	D7
2A61	D6
2A63	D6
2A64	D7
2A65	D7
2A67	D6
2A68	D6
2A69	D7
2A70	C7
2A71	C7
2A74	D7
2A81	B7
2A82	B7
2A84	B7
2A85	B7
2A87	B7
2A90	D6
2A91	B7
2A92	B7
2A98	B7
2B00	A4
2B01	A4
2B12	A5
2B13	A5
2B20	A5
2B89	A5
2BA0	A5
2BA1	A4
2BA2	A5
2BA3	A5
2C02	C6
2C03	C7
2C06	C6
2C07	C6
2C08	C6
2C09	C6
2C10	C7
2C11	C6
2C12	C6
2C13	C6
2C14	C6
2C15	C6
2C16	C6
2C17	C6
2C18	C6
2C19	C6
2C20	C6
2C21	C6
2C22	C6
2C23	C6
2C25	B6
2C27	C6
2C28	C6
2C31	C6
2C35	C6
2C36	C7
2C40	C6
2C41	C7
2C44	C6
2C50	C7
2C55	C6
2C57	C7
2C63	C7
2C65	C6
2C67	C6
2C68	C6
2C69	C6
2C70	B7
2C72	C7
2C74	C6
2C78	C6
2C79	C6
2C80	C6
2C82	B7
2C99	C7
2D04	F8
2D05	F8
2D06	F8
2D07	F9
2D08	E8
2D11	F8
2D17	E8
2D18	E8
2D22	E8
2D23	E8
2D24	F9
2D25	E8
2D26	E8
2D27	E8
2D28	E8
2D29	E8
2D30	E8
2D31	E8
2D32	E9
2D34	E8
2D37	E9
2D40	E9
2D41	E8
2D42	E9
2D43	E9
2D44	E8
2D45	E8
2D49	E8
2D54	E8
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2D60	D8
2D61	E9
2D62	E8
2D63	E8
2D64	E8
2D65	E8
2D66	E8
2D67	E8
2D68	E8
2D69	E9
2D71	E8
2D77	E8
2D78	D8
2D79	D8
2D80	D8
2D81	D8
2D82	D8
2D87	F8
2D97	E9
2D98	E9
2DF1	F7
2DG1	D8
2DG2	D8
2DG3	E9
2DG4	E8
2DH1	F8
2DH2	F9
2DH5	F8
2DH8	F9
2F00	F5
2F01	F5
2F02	F5
2F03	F5
2F04	F5
2F05	F5
2F06	F5
2F07	F5
2F08	F6
2F09	F6
2F0A	F6
2F0B	F6
2F0C	F5
2F0D	F5
2F0E	F5
2F0F	F5
2F0G	F5
2F0H	F5
2F0I	F5
2F0J	F5
2F0K	F5
2F0L	F5
2F0M	F5
2F0N	F5
2F0V	E4
2F0W	E3
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3V17	D3
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3V19	C3
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9W40	C8
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Personal Notes:

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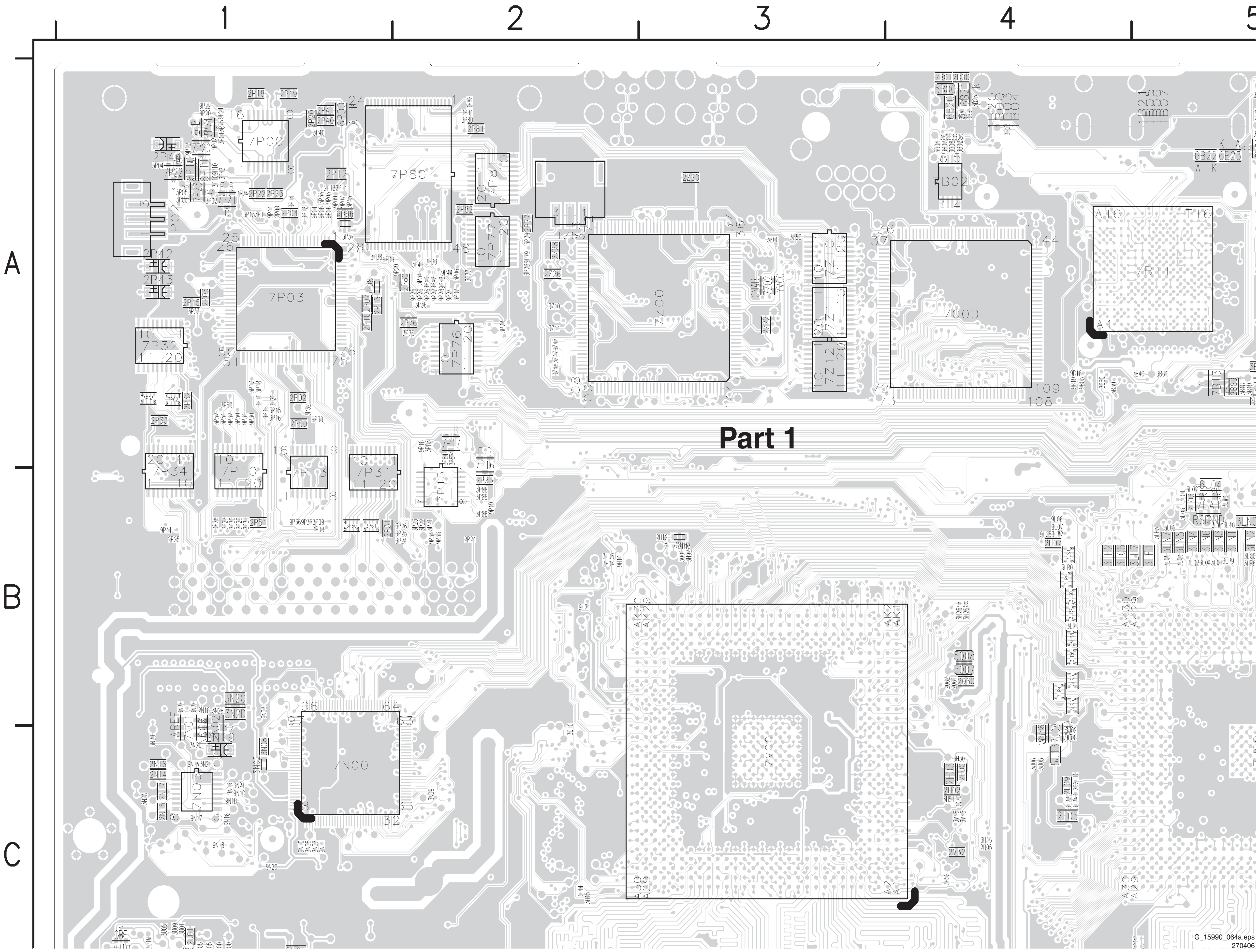
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C
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7P15
7P76
7P77
7P81
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7Z10
7Z11
7Z12
7000
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7N03
1P02
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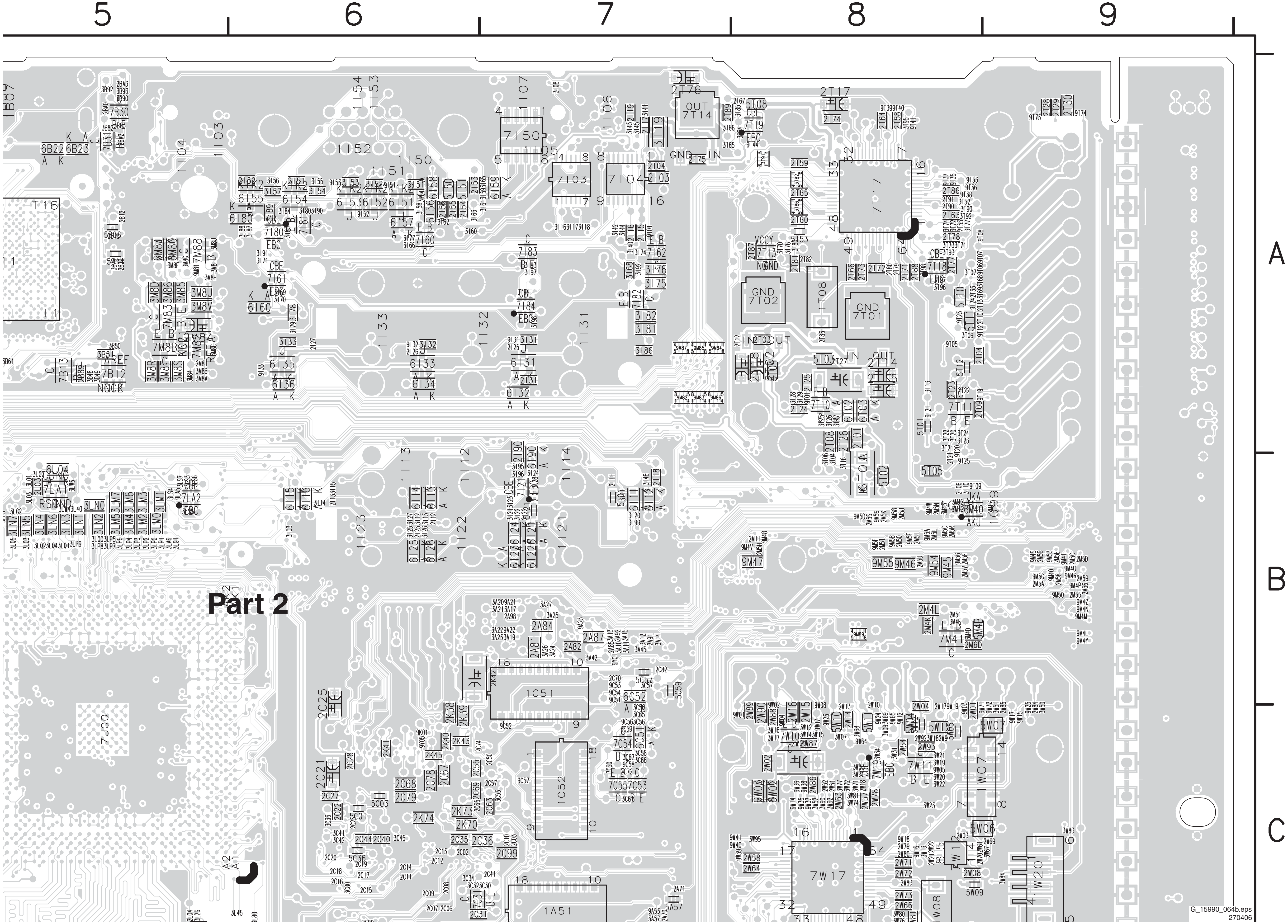
Layout SSB (Bottom Side Part 2)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B
C
Part 2
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7104
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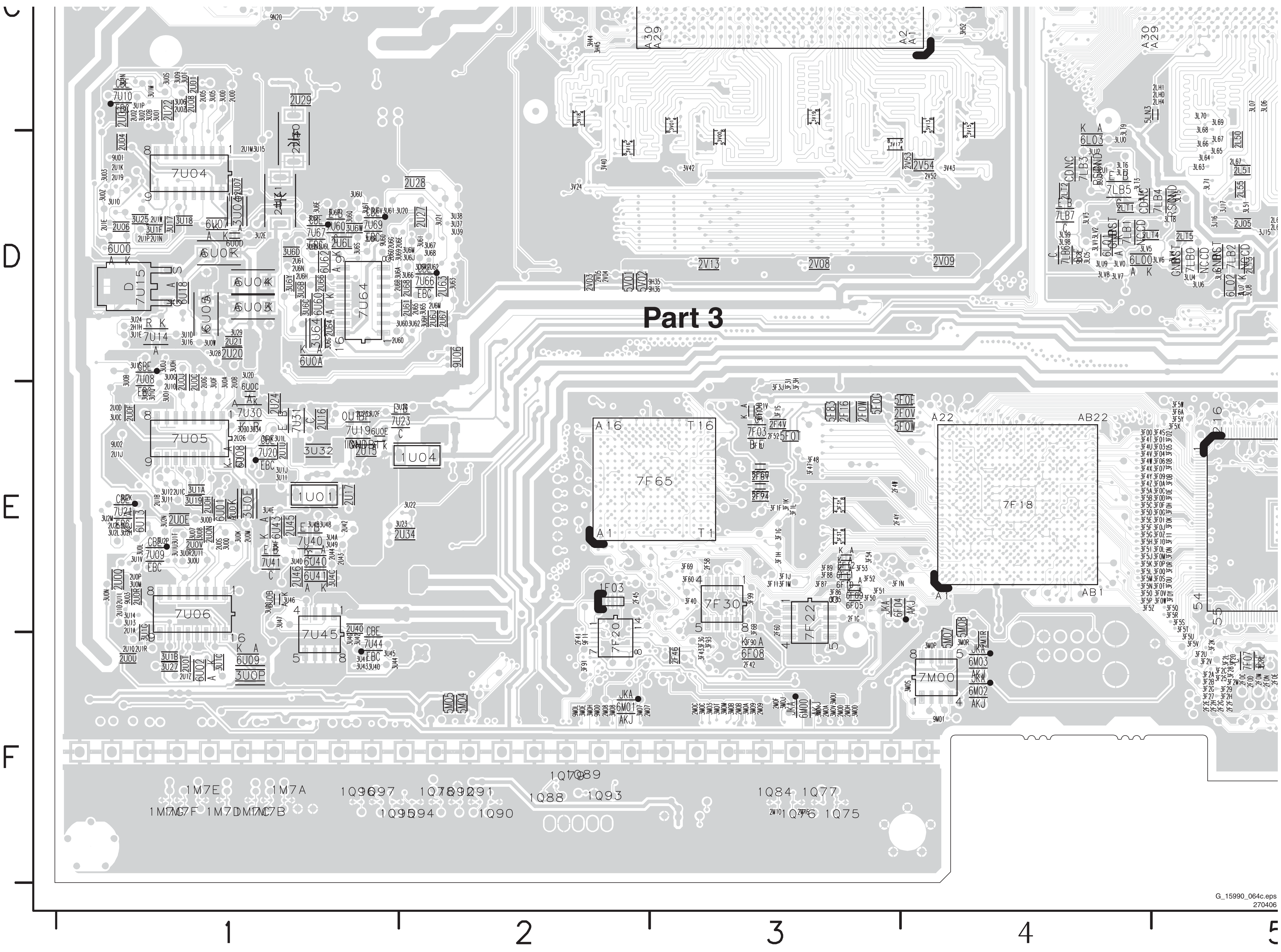
Layout SSB (Bottom Side Part 3)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F
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5
Part 3
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1U01
3U32
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7F18
7F30
7F22
7F20
1F03
7M00
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T16
A1
T1
A22
AB22
AB1
2V13
2V08
2V09
2V54
A30
A29
A2
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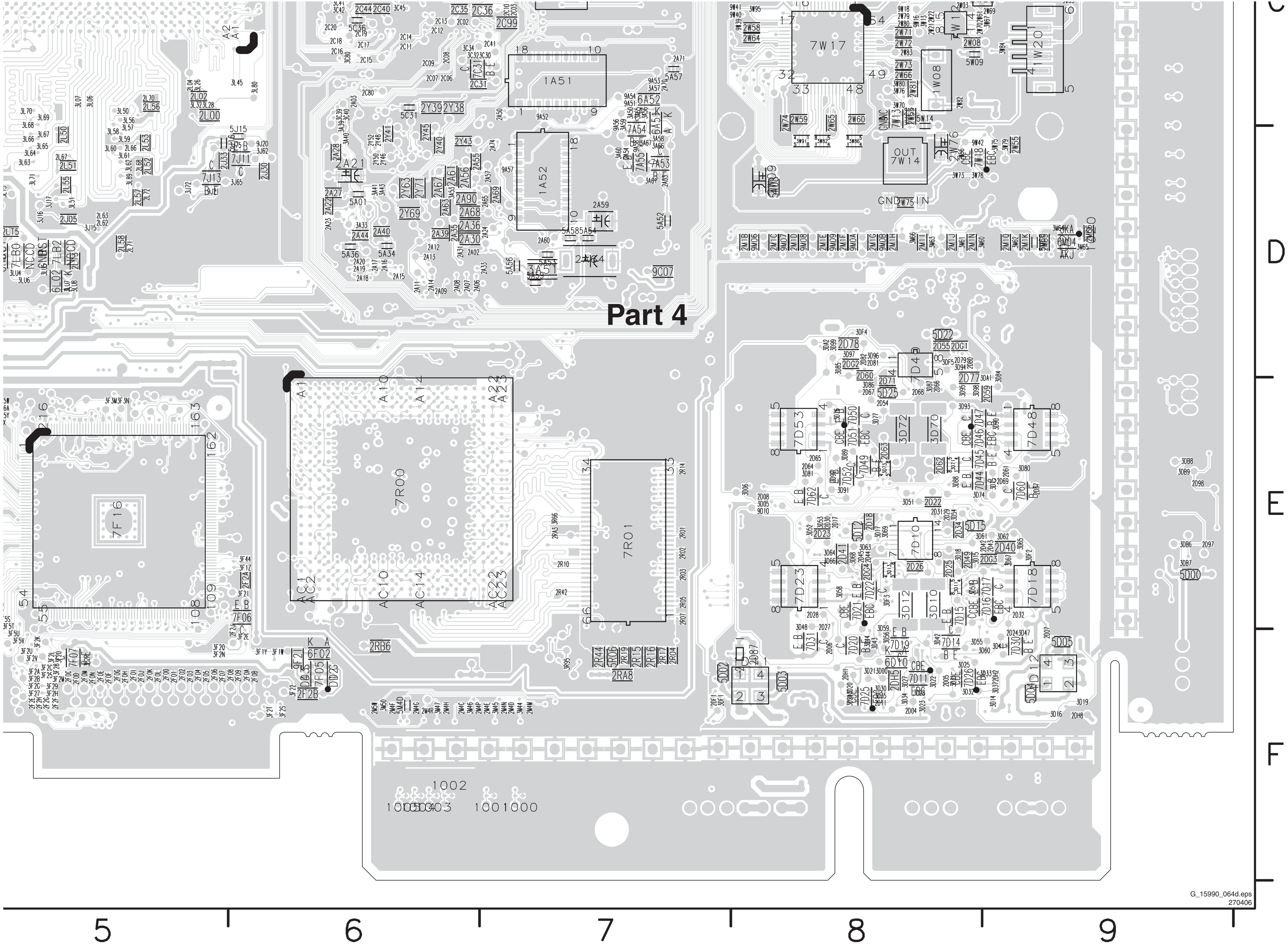
1M7A
1M7F
1M7D
1M7B
1Q97
1Q91
1Q94
1Q90
1Q88
1Q93
1Q89
1Q84
1Q77
1Q76
1Q75

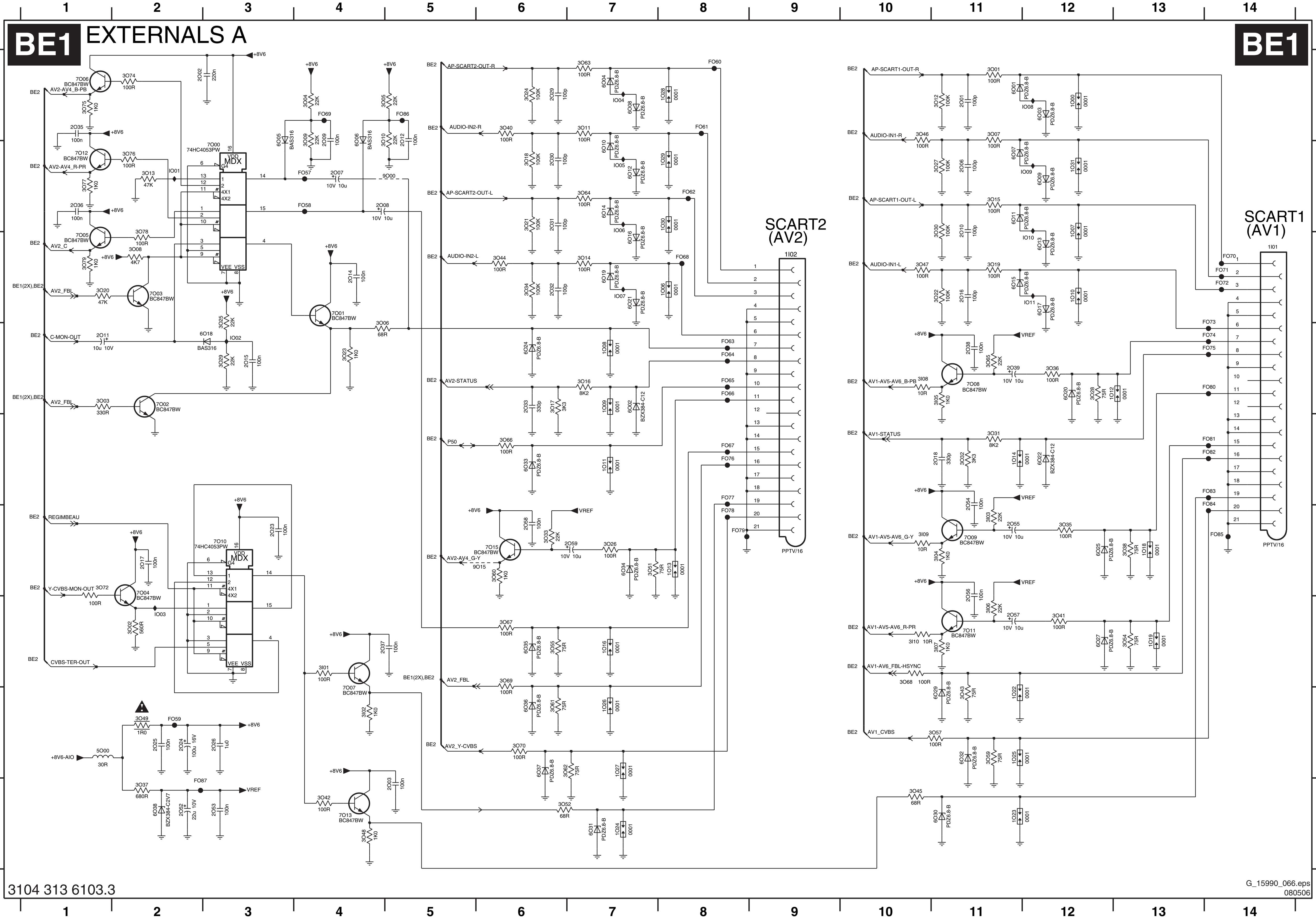
G_15990_064c.eps
270406

Layout SSB (Bottom Side Part 4)


Part 4
7F16
7R00
7R01
1A51
1A52
7W17
OUT 7W14
1W08
1W20
7D53
7D48
7D23
7D18
7D10
7D72
7D70
2RB6
2RA8
9C07
1002
C
D
E
F
5
6
7
8
9

G_15990_064d.eps
270406

External I/O Panel: Externals A

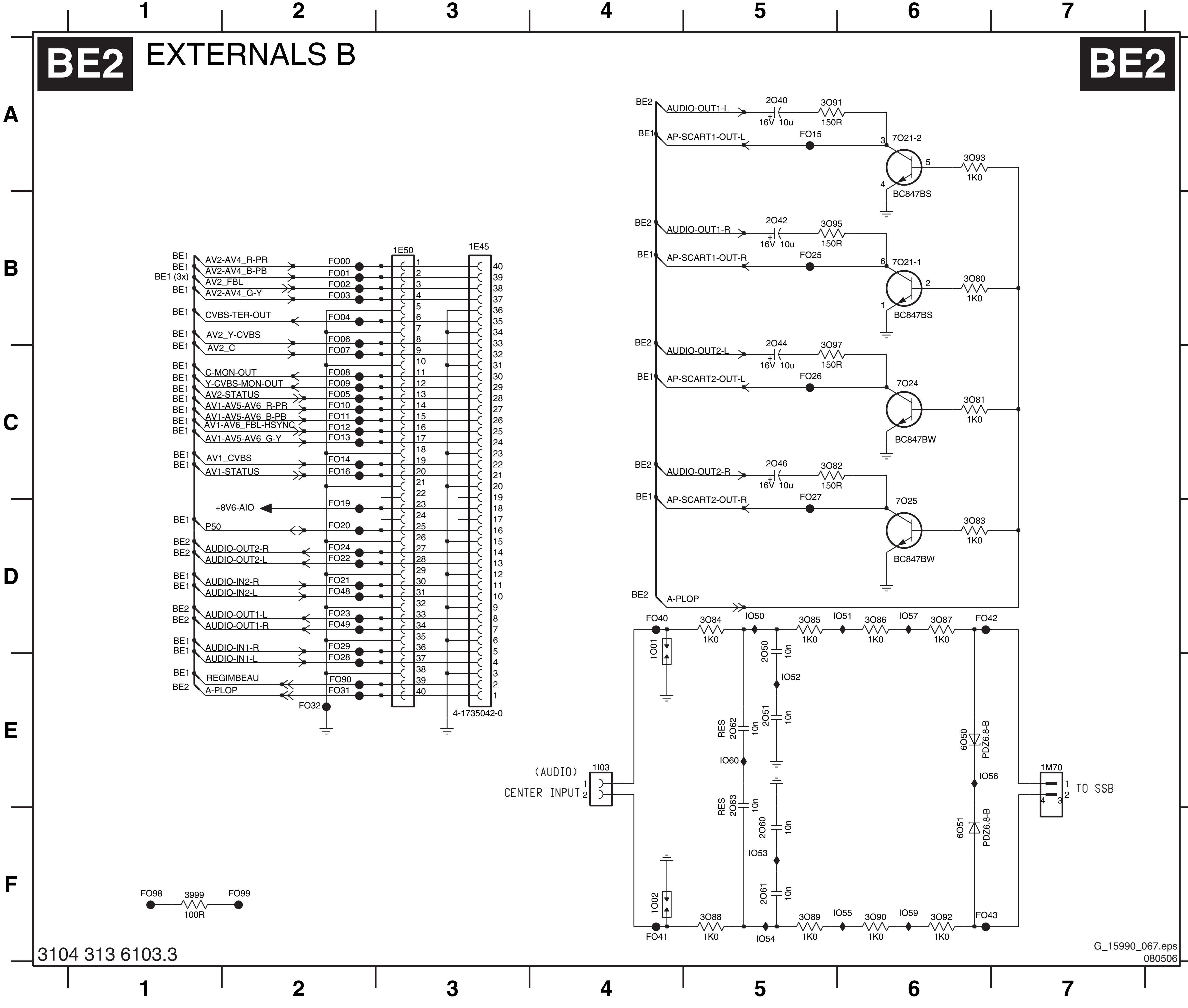

BE1
EXTERNALS A
BE1
SCART2
(AV2)
1I02
PPTV/16
SCART1
(AV1)
1I01
PPTV/16
7O00
74HC4053PW
MDX
7O10
74HC4053PW
AV2-AV4_B-PB
AV2-AV4_R-PR
AV2_C
AV2_FBL
C-MON-OUT
REGIMBEAU
Y-CVBS-MON-OUT
CVBS-TER-OUT
AP-SCART2-OUT-R
AUDIO-IN2-R
AP-SCART2-OUT-L
AUDIO-IN2-L
AV2-STATUS
P50
AV2-AV4_G-Y
AV2_Y-CVBS
AP-SCART1-OUT-R
AUDIO-IN1-R
AP-SCART1-OUT-L
AUDIO-IN1-L
AV1-AV5-AV6_B-PB
AV1-STATUS
AV1-AV5-AV6_G-Y
AV1-AV5-AV6_R-PR
AV1-AV6_FBL-HSYNC
AV1_CVBS
+8V6
+8V6-AIO
VREF
BE2
BE1(2X),BE2
BC847BW
BAS316
PDZ6.8-B
BZX384-C12
BZX384-C2V7
3104 313 6103.3
G_15990_066.eps
080506

1I01 C14
1I02 C9
1O00 A12
1O06 C8
1O07 B12
1O08 D7
1O09 D7
1O10 C12
1O11 E7
1O12 D13
1O13 F8
1O14 E11
1O16 G7
1O18 F13
1O19 G13
1O22 H11
1O23 I11
1O24 I7
1O25 H11
1O26 H7
1O27 H7
1O28 A8
1O29 B8
1O30 B8
1O31 B12
2O01 A11
2O02 A3
2O03 I5
2O06 B11
2O07 B4
2O08 B4
2O09 A4
2O10 B11
2O11 D1
2O12 A5
2O14 C4
2O15 D3
2O16 C11
2O17 F2
2O18 E11
2O23 F3
2O24 H2
2O25 H2
2O26 H3
2O29 A6
2O30 B6
2O31 B6
2O32 C6
2O33 D6
2O35 A1
2O36 B1
2O37 G4
2O38 D11
2O39 D11
2O52 I2
2O53 I3
2O54 E11
2O55 F11
2O56 F11
2O57 G11
2O58 F6
2O59 F7
3I01 G4
3I02 H4
3I03 F11
3I04 F11
3I05 D11
3I06 G11
3I07 G11
3I08 D10
3I09 F10
3I10 G10
3O01 A11
3O02 G2
3O03 D1
3O04 A4
3O05 A5
3O06 D4
3O07 A11
3O08 C2
3O09 A4
3O10 A5
3O11 A7
3O12 A11
3O13 B2
3O14 C7
3O15 B11
3O16 D7
3O17 D6
3O18 B6
3O19 C11
3O20 C1
3O21 B6
3O22 C11
3O23 D4
3O24 A6
3O25 C3
3O26 F7
3O27 B11
3O28 D12
3O29 D3
3O30 B11
3O31 E11
3O32 E11
3O33 F6
3O34 C6
3O35 F12
3O36 D12
3O37 I2
3O38 F13
3O40 A6
3O41 G12
3O42 I4
3O43 H11
3O44 C6

3O45 I10
3O46 A10
3O47 C10
3O48 I4
3O49 H2
3O51 F7
3O52 I6
3O54 G13
3O55 G6
3O57 H11
3O59 H11
3O60 F6
3O61 H6
3O62 H7
3O63 A7
3O64 B7
3O65 D11
3O66 E6
3O67 G6
3O68 G10
3O69 G6
3O70 H6
3O72 G1
3O74 A2
3O75 A1
3O76 B2
3O77 B1
3O78 C2
3O79 C1
5O00 H1
6O01 A11
6O02 D7
6O03 A12
6O04 A7
6O05 A3
6O06 A4
6O07 B11
6O08 A7
6O09 B12
6O10 B7
6O11 B11
6O12 B7
6O13 C12
6O14 B7
6O15 C11
6O16 C7
6O17 C12
6O18 D3
6O19 C7
6O20 D12
6O21 C7
6O22 E12
6O24 D6
6O25 F12
6O27 G12
6O29 H11
6O30 I11
6O31 I7
6O32 H11
6O33 E6
6O34 F7
6O35 G6
6O36 H6
6O37 H6
6O38 I2
7O00 B3
7O01 C4
7O02 D2
7O03 C2
7O04 F2
7O05 C1
7O06 A1
7O07 H4
7O08 D11
7O09 F11
7O10 F3
7O11 G11
7O12 B1
7O13 I4
7O15 F6
9O00 B5
9O15 F6
FO57 B4
FO58 B4
FO59 H2
FO60 A8
FO61 A8
FO62 B8
FO63 D8
FO64 D8
FO65 D8
FO66 D8
FO67 E8
FO68 C8
FO69 A4
FO70 C14
FO71 C14
FO72 C14
FO73 D14
FO74 D14
FO75 D14
FO76 E8
FO77 E8
FO78 F8
FO79 F8
FO80 D14
FO81 E14
FO82 E14
FO83 E14
FO84 F14
FO85 F14
FO86 A5
FO87 I2
IO01 B2
IO02 D3

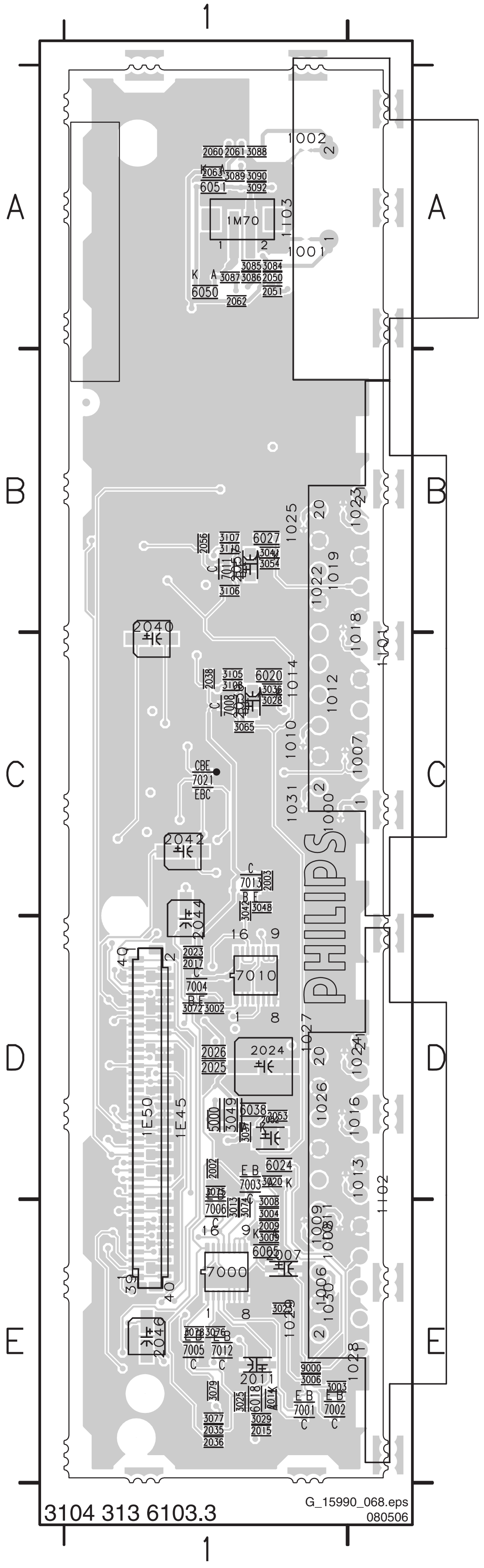
IO03 G2
IO04 A7
IO05 B7
IO06 B7
IO07 C7
IO08 A12
IO09 B12
IO10 C12
IO11 C12

External I/O Panel: Externals B


BE2
EXTERNALS B
BE2
1 2 3 4 5 6 7
A B C D E F
AUDIO-OUT1-L
2O40
16V 10u
3O91
150R
AP-SCART1-OUT-L
FO15
7O21-2
BC847BS
3O93
1K0
AUDIO-OUT1-R
2O42
3O95
AP-SCART1-OUT-R
FO25
7O21-1
3O80
AUDIO-OUT2-L
2O44
3O97
AP-SCART2-OUT-L
FO26
7O24
BC847BW
3O81
AUDIO-OUT2-R
2O46
3O82
AP-SCART2-OUT-R
FO27
7O25
3O83
A-PLOP
1E50
1E45
4-1735042-0
AV2-AV4_R-PR
AV2-AV4_B-PB
AV2_FBL
AV2-AV4_G-Y
CVBS-TER-OUT
AV2_Y-CVBS
AV2_C
C-MON-OUT
Y-CVBS-MON-OUT
AV2-STATUS
AV1-AV5-AV6_R-PR
AV1-AV5-AV6_B-PB
AV1-AV6_FBL-HSYNC
AV1-AV5-AV6_G-Y
AV1_CVBS
AV1-STATUS
+8V6-AIO
P50
AUDIO-OUT2-R
AUDIO-OUT2-L
AUDIO-IN2-R
AUDIO-IN2-L
AUDIO-OUT1-L
AUDIO-OUT1-R
AUDIO-IN1-R
AUDIO-IN1-L
REGIMBEAU
A-PLOP
BE1 (3x)
FO00 FO01 FO02 FO03 FO04 FO06 FO07 FO08 FO09 FO05 FO10 FO11 FO12 FO13 FO14 FO16 FO19 FO20 FO24 FO22 FO21 FO48 FO23 FO49 FO29 FO28 FO90 FO31 FO32
FO40
3O84
1K0
IO50
3O85
IO51
3O86
IO57
3O87
FO42
1O01
2O50 10n
IO52
2O51 10n
RES 2O62 10n
IO60
RES 2O63 10n
2O60 10n
IO53
2O61 10n
6O50 PDZ6.8-B
IO56
6O51 PDZ6.8-B
(AUDIO)
CENTER INPUT
1I03
1M70
TO SSB
1O02
3O88
IO54
3O89
IO55
3O90
IO59
3O92
FO41
FO43
FO98
3999
100R
FO99
3104 313 6103.3
G_15990_067.eps
080506

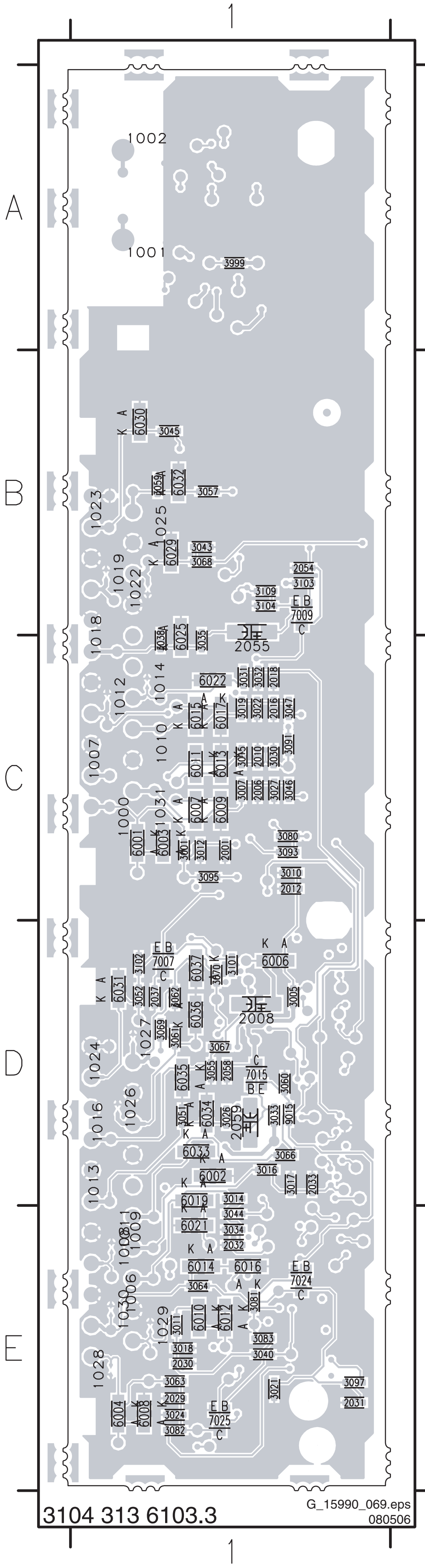
1E45	B3
1E50	B3
1I03	E4
1M70	E7
1O01	D4
1O02	F4
2O40	A5
2O42	B5
2O44	B5
2O46	C5
2O50	D5
2O51	E5
2O60	F5
2O61	F5
2O62	E5
2O63	E5
3999	F1
3O80	B6
3O81	C6
3O82	C5
3O83	D6
3O84	D5
3O85	D6
3O86	D6
3O87	D7
3O88	F5
3O89	F6
3O90	F6
3O91	A5
3O92	F7
3O93	A6
3O95	B5
3O97	C5
6O50	E7
6O51	F7
7O21-1	B6
7O21-2	A6
7O24	C6
7O25	D6
FO00	B2
FO01	B2
FO02	B2
FO03	B2
FO04	B2
FO05	C2
FO06	B2
FO07	C2
FO08	C2
FO09	C2
FO10	C2
FO11	C2
FO12	C2
FO13	C2
FO14	C2
FO15	A5
FO16	C2
FO19	D2
FO20	D2
FO21	D2
FO22	D2
FO23	D2
FO24	D2
FO25	B5
FO26	C5
FO27	D5
FO28	E2
FO29	D2
FO31	E2
FO32	E2
FO40	D4
FO41	F4
FO42	D7
FO43	F7
FO48	D2
FO49	D2
FO90	E2
FO98	F1
FO99	F2
IO50	D5
IO51	D6
IO52	E5
IO53	F5
IO54	F5
IO55	F6
IO56	E7
IO57	D6
IO59	F6
IO60	E5

Layout External I/O Panel (Top Side)


1
A
B
C
D
E
1002
1001
1M70
1103
1025
1023
1019
1022
1018
1014
1012
1010
1007
1031
1000
1027
1024
1026
1016
1013
1102
1009
1006
1030
1029
1028
1E50
1E45
7010
7000
2040
2042
2043
2024
2011
2046
PHILIPS
3104 313 6103.3
G_15990_068.eps
080506

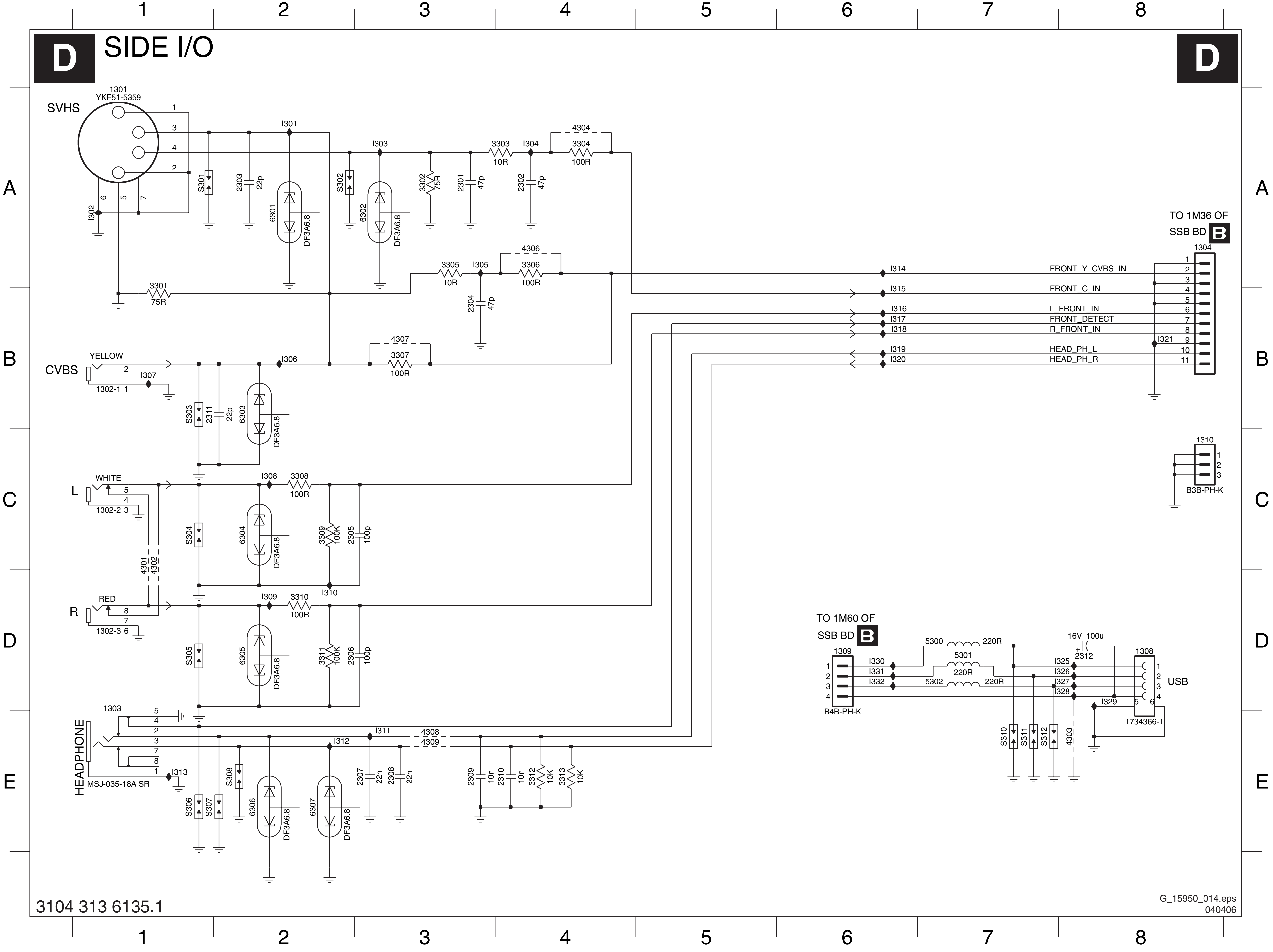
1E45	D1
1E50	D1
1I01	C1
1I02	E1
1I03	A1
1M70	A1
2O02	D1
2O03	C1
2O07	E1
2O09	E1
2O11	E1
2O14	E1
2O15	E1
2O17	D1
2O23	D1
2O24	D1
2O25	D1
2O26	D1
2O35	E1
2O36	E1
2O38	C1
2O39	C1
2O40	C1
2O42	C1
2O44	D1
2O46	E1
2O50	A1
2O51	A1
2O52	D1
2O53	D1
2O56	B1
2O57	B1
2O60	A1
2O61	A1
2O62	A1
2O63	A1
3I05	C1
3I06	B1
3I07	B1
3I08	C1
3I10	B1
3O02	D1
3O03	E1
3O04	E1
3O06	E1
3O08	E1
3O09	E1
3O13	E1
3O20	D1
3O23	E1
3O25	E1
3O28	C1
3O29	E1
3O36	C1
3O37	D1
3O41	B1
3O42	C1
3O48	C1
3O49	D1
3O54	B1
3O65	C1
3O72	D1
3O74	E1
3O75	D1
3O76	E1
3O77	E1
3O78	E1
3O79	E1
3O84	A1
3O85	A1
3O86	A1
3O87	A1
3O88	A1
3O89	A1
3O90	A1
3O92	A1
5O00	D1
6O05	E1
6O18	E1
6O20	C1
6O24	D1
6O27	B1
6O38	D1
6O50	A1
6O51	A1
7O00	E1
7O01	E1
7O02	E1
7O03	D1
7O04	D1
7O05	E1
7O06	E1
7O08	C1
7O10	D1
7O11	B1
7O12	E1
7O13	C1
7O21	C1
9O00	E1

Layout External I/O Panel (Bottom Side)


1
A
B
C
D
E
1002
1001
1023
1025
1019
1022
1018
1014
1012
1010
1007
1031
1000
1027
1024
1026
1016
1013
1009
1006
1030
1029
1028
2055
2008
3104 313 6103.3
G_15990_069.eps
080506

2O01	C1
2O06	C1
2O08	D1
2O10	C1
2O12	C1
2O16	C1
2O18	C1
2O29	E1
2O30	E1
2O31	E1
2O32	E1
2O33	D1
2O37	D1
2O54	B1
2O55	C1
2O58	D1
2O59	D1
3999	A1
3I01	D1
3I02	D1
3I03	B1
3I04	B1
3I09	B1
3O01	C1
3O05	D1
3O07	C1
3O10	C1
3O11	E1
3O12	C1
3O14	D1
3O15	C1
3O16	D1
3O17	D1
3O18	E1
3O19	C1
3O21	E1
3O22	C1
3O24	E1
3O26	D1
3O27	C1
3O30	C1
3O31	C1
3O32	C1
3O33	D1
3O34	E1
3O35	C1
3O38	C1
3O40	E1
3O43	B1
3O44	E1
3O45	B1
3O46	C1
3O47	C1
3O51	D1
3O52	D1
3O55	D1
3O57	B1
3O59	B1
3O60	D1
3O61	D1
3O62	D1
3O63	E1
3O64	E1
3O66	D1
3O67	D1
3O68	B1
3O69	D1
3O70	D1
3O80	C1
3O81	E1
3O82	E1
3O83	E1
3O91	C1
3O93	C1
3O95	C1
3O97	E1
6O01	C1
6O02	D1
6O03	C1
6O04	E1
6O06	D1
6O07	C1
6O08	E1
6O09	C1
6O10	E1
6O11	C1
6O12	E1
6O13	C1
6O14	E1
6O15	C1
6O16	E1
6O17	C1
6O19	E1
6O21	E1
6O22	C1
6O25	B1
6O29	B1
6O30	B1
6O31	D1
6O32	B1
6O33	D1
6O34	D1
6O35	D1
6O36	D1
6O37	D1
7O07	D1
7O09	B1
7O15	D1
7O24	E1
7O25	E1
9O15	D1

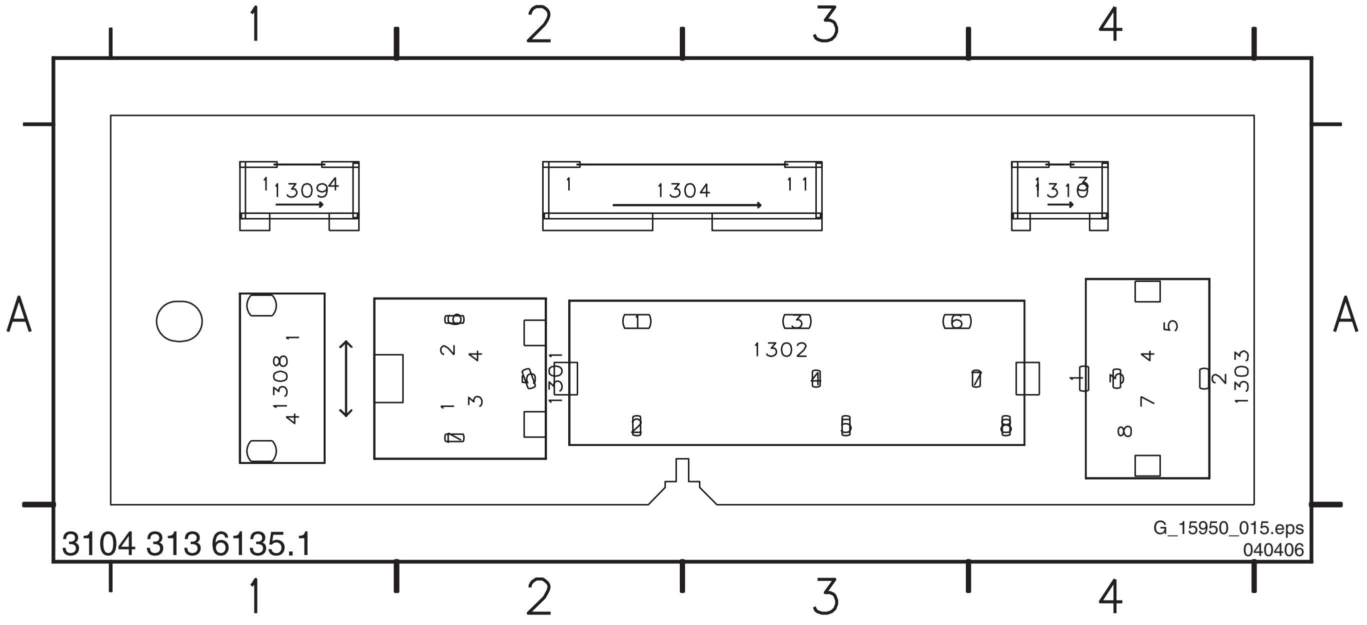
Side I/O Panel (ME6)


D
SIDE I/O
D
SVHS
1301
YKF51-5359
CVBS
YELLOW
1302-1
L
WHITE
1302-2
R
RED
1302-3
HEADPHONE
1303
MSJ-035-18A SR
TO 1M36 OF
SSB BD
B
1304
FRONT_Y_CVBS_IN
FRONT_C_IN
L_FRONT_IN
FRONT_DETECT
R_FRONT_IN
HEAD_PH_L
HEAD_PH_R
1310
B3B-PH-K
TO 1M60 OF
SSB BD
B
1309
B4B-PH-K
1308
USB
1734366-1
5300
220R
5301
220R
5302
220R
16V 100u
2312
DF3A6.8
3301
75R
3302
75R
3303
10R
3304
100R
3305
10R
3306
100R
3307
100R
3308
100R
3309
100K
3310
100R
3311
100K
3312
10K
3313
10K
2301
47p
2302
47p
2303
22p
2304
47p
2305
100p
2306
100p
2307
22n
2308
22n
2309
10n
2310
10n
2311
22p
4301
4302
4303
4304
4306
4307
4308
4309
6301
6302
6303
6304
6305
6306
6307
S301
S302
S303
S304
S305
S306
S307
S308
S310
S311
S312
I301
I302
I303
I304
I305
I306
I307
I308
I309
I310
I311
I312
I313
I314
I315
I316
I317
I318
I319
I320
I321
I325
I326
I327
I328
I329
I330
I331
I332
1
2
3
4
5
6
7
8
A
B
C
D
E
3104 313 6135.1
G_15950_014.eps
040406

1301	A1
1302-1	B1
1302-2	C1
1302-3	D1
1303	D1
1304	A8
1308	D8
1309	D6
1310	C8
2301	A3
2302	A4
2303	A2
2304	B3
2305	C2
2306	D2
2307	E3
2308	E3
2309	E3
2310	E4
2311	B1
2312	D8
3301	B1
3302	A3
3303	A4
3304	A4
3305	A3
3306	A4
3307	B3
3308	C2
3309	C2
3310	D2
3311	D2
3312	E4
3313	E4
4301	C1
4302	C1
4303	E8
4304	A4
4306	A4
4307	B3
4308	E3
4309	E3
5300	D7
5301	D7
5302	D7
6301	A2
6302	A3
6303	B2
6304	C2
6305	D2
6306	E2
6307	E2
I301	A2
I302	A1
I303	A3
I304	A4
I305	A3
I306	B2
I307	B1
I308	C2
I309	D2
I310	D2
I311	E3
I312	E2
I313	E1
I314	A6
I315	B6
I316	B6
I317	B6
I318	B6
I319	B6
I320	B6
I321	B8
I325	D8
I326	D8
I327	D8
I328	D8
I329	D8
I330	D6
I331	D6
I332	D6
S301	A1
S302	A2
S303	B1
S304	C1
S305	D1
S306	E1
S307	E1
S308	E2
S310	E7
S311	E7
S312	E7

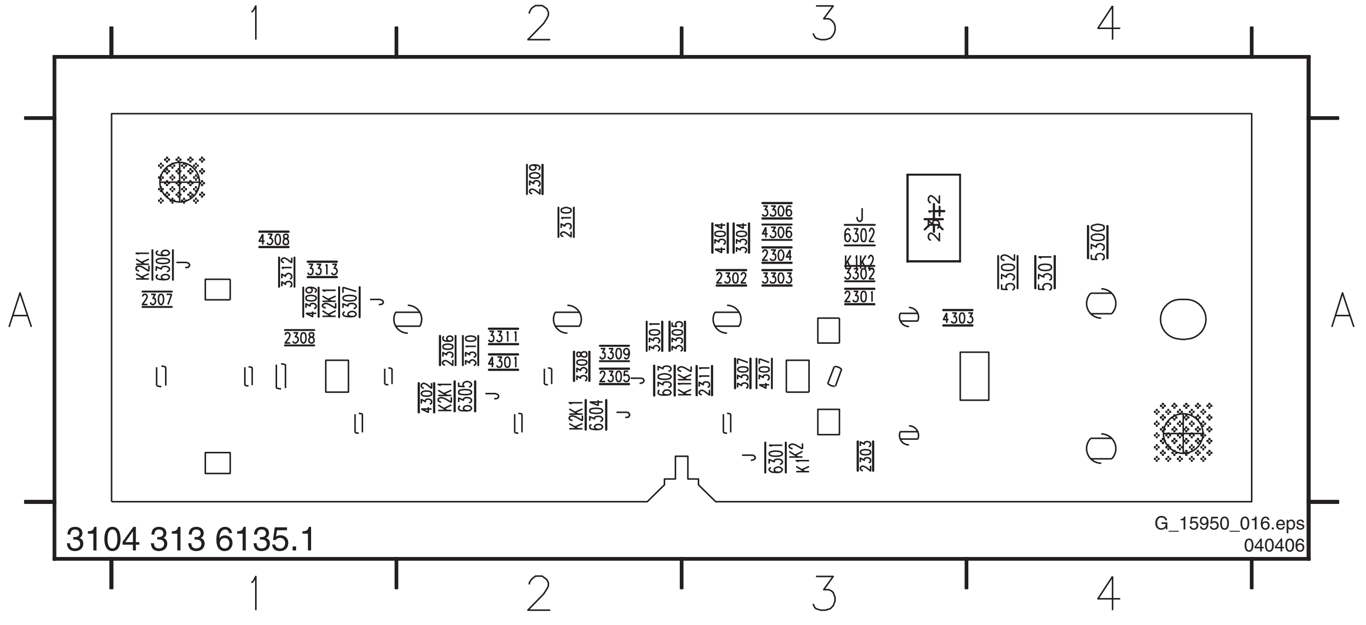
Layout Side I/O Panel (ME6) (Top Side)

1301 A2	1302 A3	1303 A4	1304 A2	1308 A1	1309 A1	1310 A4


1
2
3
4
A
1309
1304
1310
1308
1301
1302
1303
3104 313 6135.1
G_15950_015.eps
040406

Layout Side I/O Panel (ME6) (Bottom Side)

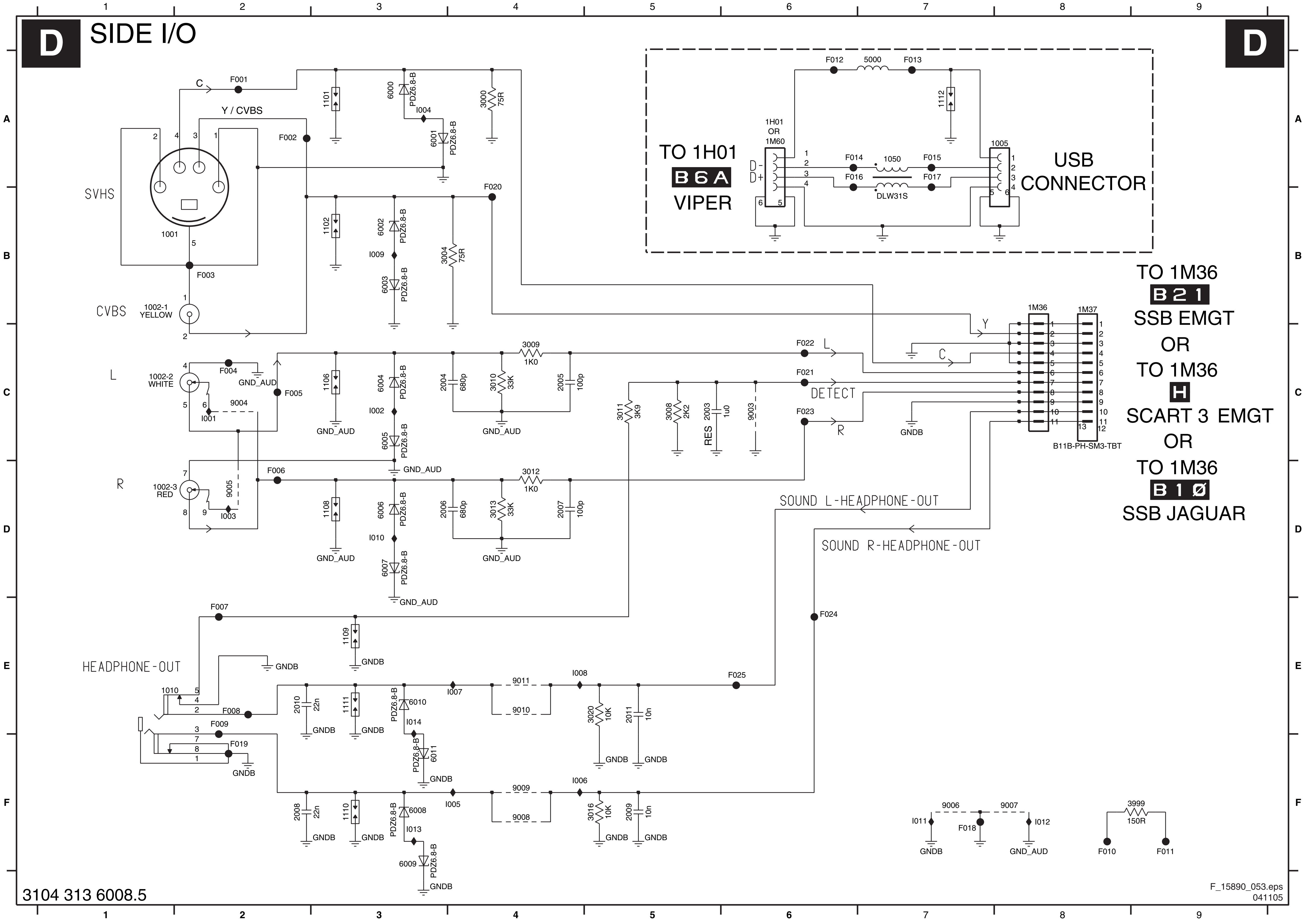
2301 A3	2307 A1	3301 A2	3307 A3	3313 A1	4307 A3	6301 A3	6307 A1
2302 A3	2308 A1	3302 A3	3308 A2	4301 A2	4308 A1	6302 A3	
2303 A3	2309 A2	3303 A3	3309 A2	4302 A2	4309 A1	6303 A2	
2304 A3	2310 A2	3304 A3	3310 A2	4303 A3	5300 A4	6304 A2	
2305 A2	2311 A3	3305 A2	3311 A2	4304 A3	5301 A4	6305 A2	
2306 A2	2312 A3	3306 A3	3312 A1	4306 A3	5302 A4	6306 A1	


1
2
3
4
A
3104 313 6135.1
G_15950_016.eps
040406

Personal Notes:

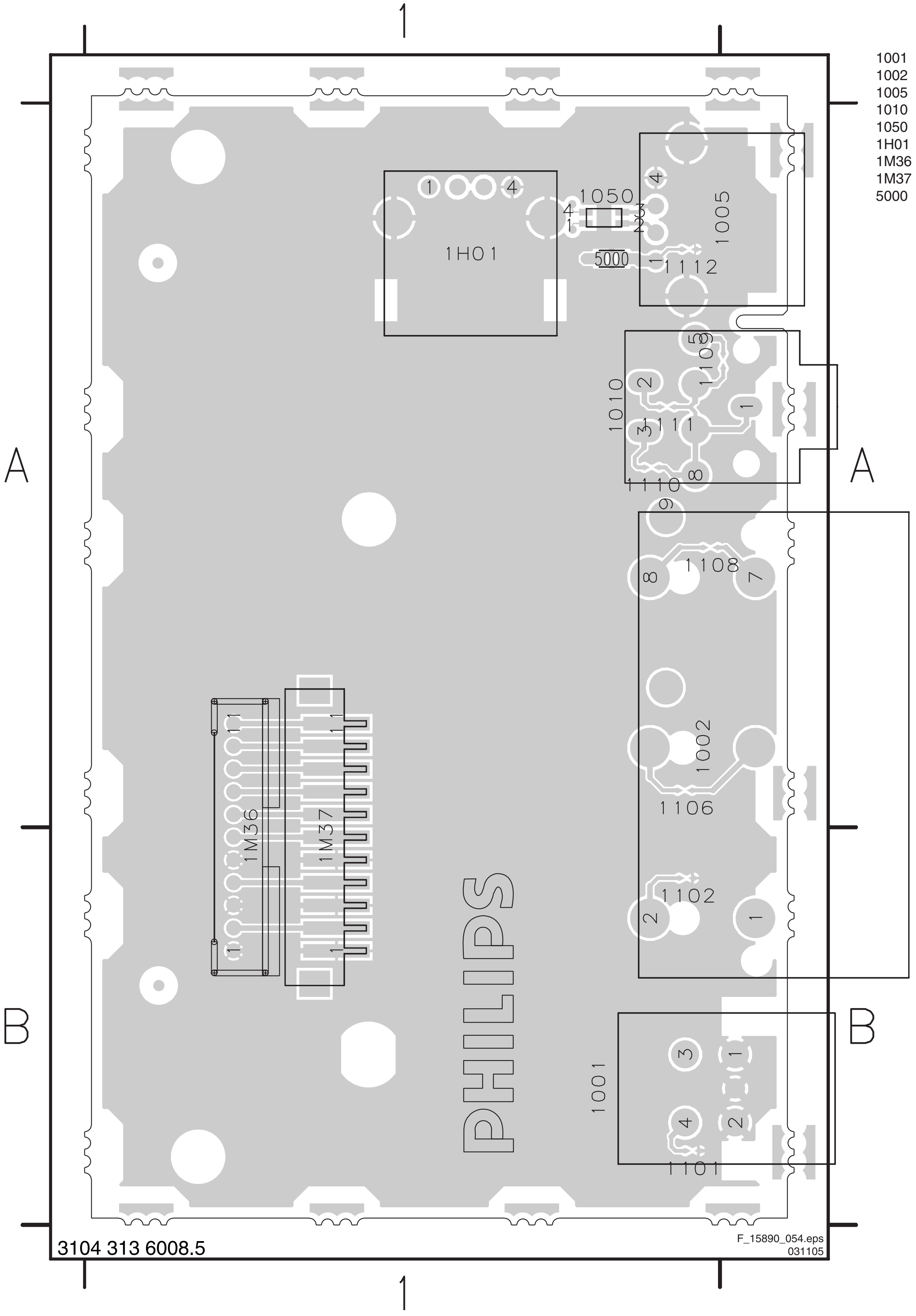
E_06532_012.eps
131004

Side I/O Panel (32PF9731D/10)


D
SIDE I/O
SVHS
CVBS
1002-1 YELLOW
L
1002-2 WHITE
R
1002-3 RED
HEADPHONE-OUT
1001
1010
C
Y / CVBS
F001
F002
F003
F004
F005
F006
F007
F008
F009
F019
F020
F021
F022
F023
F024
F025
GND_AUD
GNDB
9004
9005
I001
I002
I003
I004
I005
I006
I007
I008
I009
I010
I013
I014
1101
1102
1106
1108
1109
1110
1111
6000 PDZ6.8-B
6001 PDZ6.8-B
6002 PDZ6.8-B
6003 PDZ6.8-B
6004 PDZ6.8-B
6005 PDZ6.8-B
6006 PDZ6.8-B
6007 PDZ6.8-B
6008 PDZ6.8-B
6009 PDZ6.8-B
6010 PDZ6.8-B
6011 PDZ6.8-B
3000 75R
3004 75R
3009 1K0
3012 1K0
3010 33K
3013 33K
3011 3K9
3008 2K2
2003 1u0
RES
9003
2004 680p
2006 680p
2005 100p
2007 100p
2010 22n
2008 22n
3020 10K
3016 10K
2011 10n
2009 10n
9009
9008
9010
9011
DETECT
L
R
Y
C
SOUND L-HEADPHONE-OUT
SOUND R-HEADPHONE-OUT
TO 1H01
B6A
VIPER
1H01 OR 1M60
D-
D+
F012
5000
F013
1112
F014
1050
F015
F016
DLW31S
F017
1005
USB CONNECTOR
1M36
1M37
B11B-PH-SM3-TBT
TO 1M36
B21
SSB EMGT
OR
TO 1M36
H
SCART 3 EMGT
OR
TO 1M36
B10
SSB JAGUAR
9006
9007
I011
F018
I012
3999 150R
F010
F011
3104 313 6008.5
F_15890_053.eps
041105

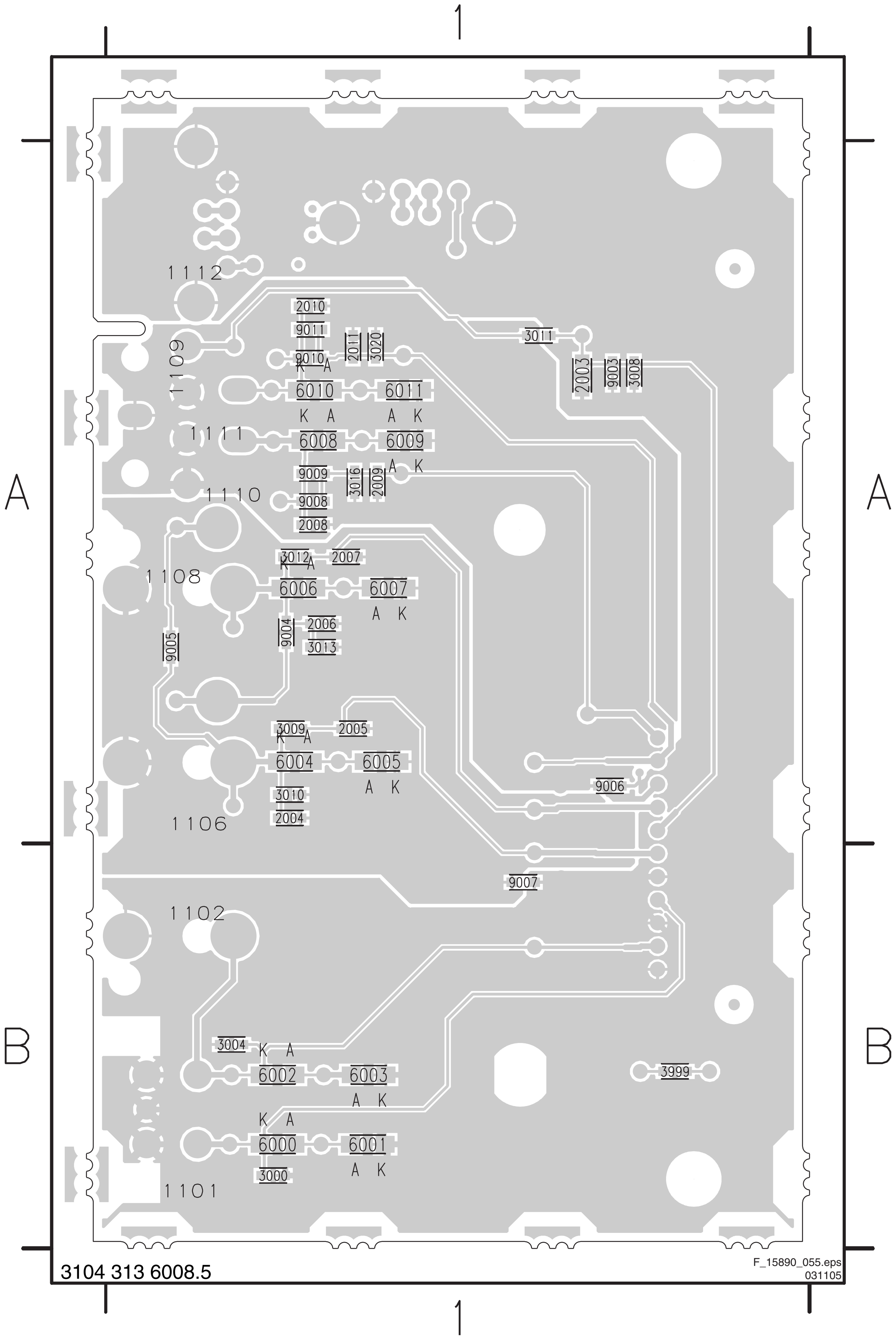
1001	B2
1002-1	B1
1002-2	C1
1002-3	D1
1005	A8
1010	E1
1050	A7
1101	A3
1102	B3
1106	C3
1108	D3
1109	E3
1110	F3
1111	E3
1112	A7
1H01	A6
1M36	B8
1M37	B8
2003	C5
2004	C3
2005	C4
2006	D3
2007	D4
2008	F2
2009	F5
2010	E2
2011	E5
3000	A4
3004	B3
3008	C5
3009	C4
3010	C4
3011	C5
3012	D4
3013	D4
3016	F5
3020	E5
3999	F9
5000	A7
6000	A3
6001	A3
6002	B3
6003	B3
6004	C3
6005	C3
6006	D3
6007	D3
6008	F3
6009	F3
6010	E3
6011	F3
9003	C6
9004	C2
9005	D2
9006	F7
9007	F8
9008	F4
9009	F4
9010	E4
9011	E4
F001	A2
F002	A2
F003	B2
F004	C2
F005	C2
F006	D2
F007	E2
F008	E2
F009	E2
F010	F8
F011	F9
F012	A6
F013	A7
F014	A6
F015	A7
F016	A6
F017	A7
F018	F7
F019	F2
F020	B4
F021	C6
F022	C6
F023	C6
F024	E6
F025	E6
I001	C2
I002	C3
I003	D2
I004	A3
I005	F4
I006	F4
I007	E4
I008	E4
I009	B3
I010	D3
I011	F7
I012	F8
I013	F3
I014	E3

Layout Side I/O Panel (32PF9731D/10)(Top Side)


1
A
B
1H01
1050
5000
1005
1112
1010
1109
1111
1110
1108
1002
1106
1102
1001
1101
1M36
1M37
PHILIPS
3104 313 6008.5
F_15890_054.eps
031105

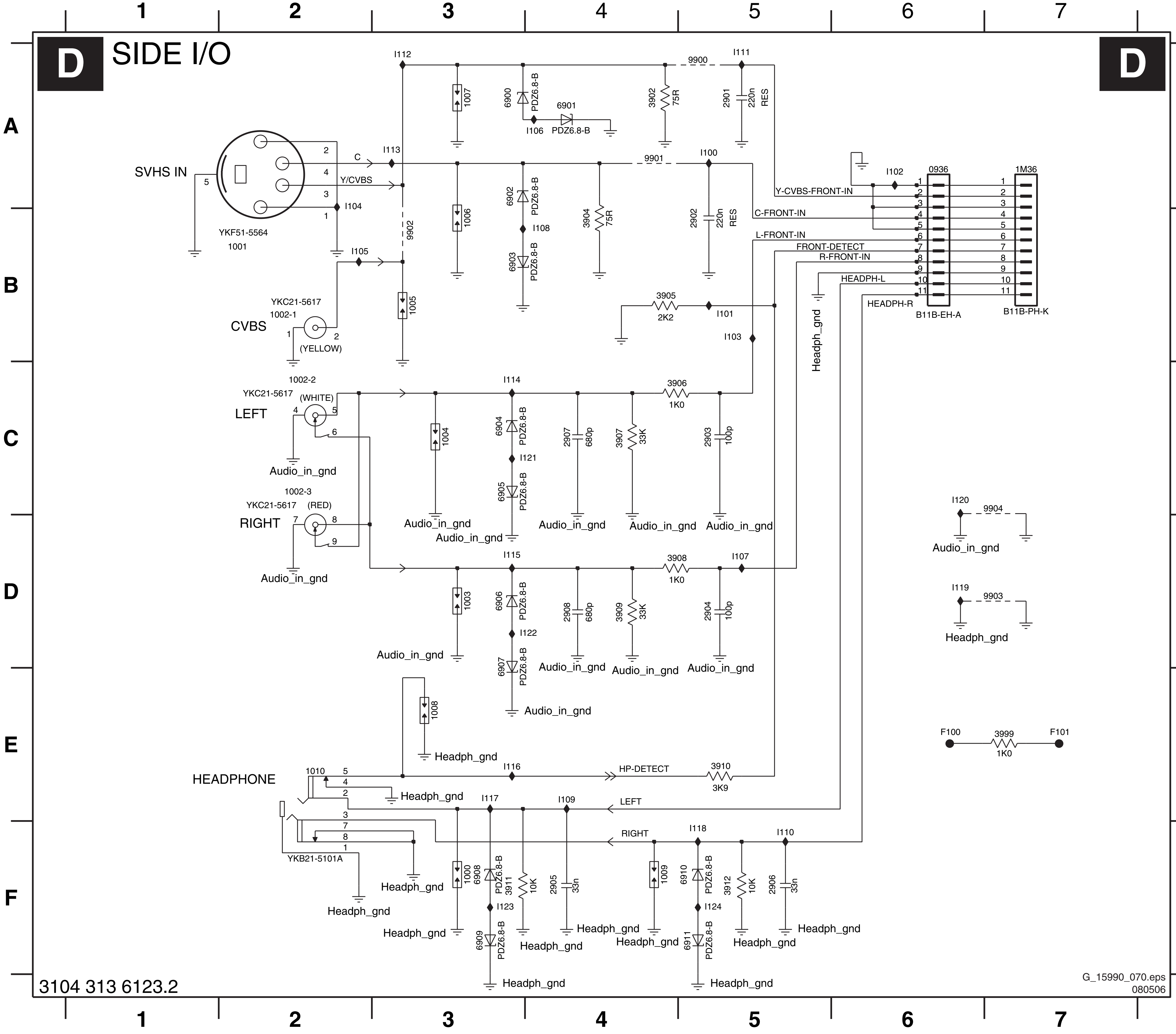
1001	B1
1002	A1
1005	A1
1010	A1
1050	A1
1H01	A1
1M36	B1
1M37	B1
5000	A1

Layout Side I/O Panel (32PF9731D/10)(Bottom Side)


1
A
B
1112
1109
1111
1110
1108
1106
1102
1101
2010
9011
9010
2011
3020
6010
6011
6008
6009
9009
9008
2008
3016
2009
3011
2003
9003
3008
3012
2007
6006
6007
9004
2006
3013
9005
3009
2005
6004
6005
3010
2004
9006
9007
3004
6002
6003
6000
6001
3000
3999
3104 313 6008.5
F_15890_055.eps
031105

2003	A1
2004	A1
2005	A1
2006	A1
2007	A1
2008	A1
2009	A1
2010	A1
2011	A1
3000	B1
3004	B1
3008	A1
3009	A1
3010	A1
3011	A1
3012	A1
3013	A1
3016	A1
3020	A1
3999	B1
6000	B1
6001	B1
6002	B1
6003	B1
6004	A1
6005	A1
6006	A1
6007	A1
6008	A1
6009	A1
6010	A1
6011	A1
9003	A1
9004	A1
9005	A1
9006	A1
9007	B1
9008	A1
9009	A1
9010	A1
9011	A1

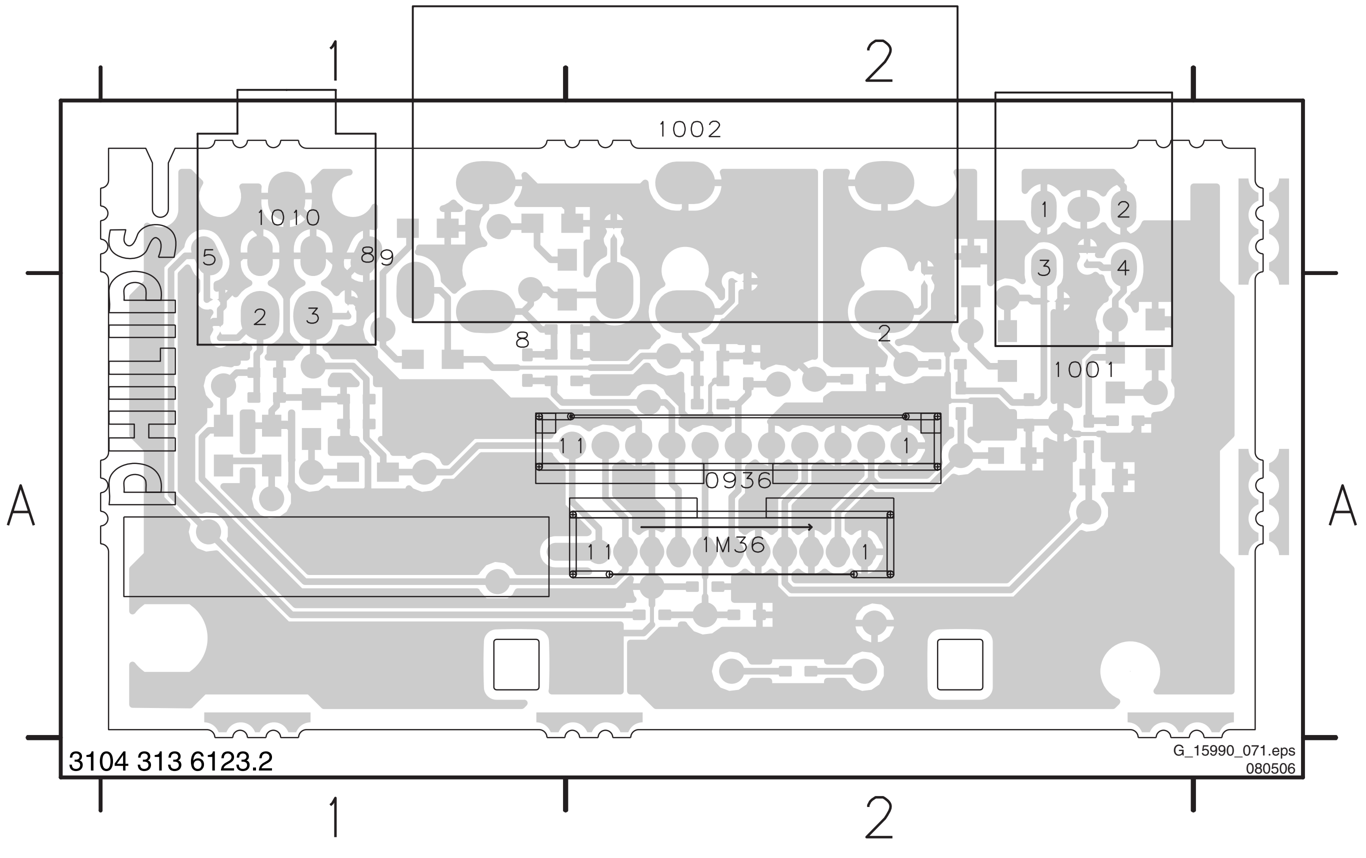
Side I/O Panel (TOP 37”& 42”)


1 2 3 4 5 6 7
A B C D E F
D
SIDE I/O
D
I112
1007
6900
PDZ6.8-B
6901
I106
PDZ6.8-B
3902
75R
9900
I111
2901
220n
RES
SVHS IN
5
2
4
3
1
C
Y/CVBS
I113
I104
YKF51-5564
1001
9902
1006
6902
PDZ6.8-B
I108
6903
PDZ6.8-B
3904
75R
9901
I100
2902
220n
RES
I105
1005
YKC21-5617
1002-1
CVBS
1
2
(YELLOW)
3905
2K2
I101
I103
Y-CVBS-FRONT-IN
C-FRONT-IN
L-FRONT-IN
FRONT-DETECT
R-FRONT-IN
HEADPH-L
HEADPH-R
Headph_gnd
I102
0936
1M36
1 2 3 4 5 6 7 8 9 10 11
B11B-EH-A
B11B-PH-K
1002-2
YKC21-5617
(WHITE)
LEFT
4
5
6
Audio_in_gnd
I114
1004
6904
PDZ6.8-B
I121
6905
PDZ6.8-B
2907
680p
3907
33K
3906
1K0
2903
100p
Audio_in_gnd
Audio_in_gnd
Audio_in_gnd
Audio_in_gnd
Audio_in_gnd
Audio_in_gnd
1002-3
YKC21-5617
(RED)
RIGHT
7
8
9
Audio_in_gnd
I115
1003
6906
PDZ6.8-B
I122
6907
PDZ6.8-B
2908
680p
3909
33K
3908
1K0
I107
2904
100p
Audio_in_gnd
Audio_in_gnd
Audio_in_gnd
Audio_in_gnd
Audio_in_gnd
I120
9904
Audio_in_gnd
I119
9903
Headph_gnd
1008
Headph_gnd
HEADPHONE
1010
5
4
2
3
7
8
1
YKB21-5101A
Headph_gnd
Headph_gnd
Headph_gnd
I116
HP-DETECT
3910
3K9
I117
I109
LEFT
1000
6908
PDZ6.8-B
3911
10K
2905
33n
I123
6909
PDZ6.8-B
Headph_gnd
Headph_gnd
Headph_gnd
Headph_gnd
RIGHT
I118
I110
1009
6910
PDZ6.8-B
3912
10K
2906
33n
I124
6911
PDZ6.8-B
Headph_gnd
Headph_gnd
Headph_gnd
Headph_gnd
F100
3999
1K0
F101
3104 313 6123.2
G_15990_070.eps
080506

0936	A6
1000	F3
1001	B2
1002-1	B2
1002-2	C2
1002-3	C2
1003	D3
1004	C3
1005	B3
1006	B3
1007	A3
1008	E3
1009	F4
1010	E2
1M36	A7
2901	A5
2902	B5
2903	C5
2904	D5
2905	F4
2906	F5
2907	C4
2908	D4
3902	A4
3904	B4
3905	B4
3906	C4
3907	C4
3908	D4
3909	D4
3910	E5
3911	F3
3912	F5
3999	E7
6900	A3
6901	A4
6902	A3
6903	B3
6904	C3
6905	C3
6906	D3
6907	D3
6908	F3
6909	F3
6910	F5
6911	F5
9900	A5
9901	A4
9902	B3
9903	D7
9904	C7
F100	E6
F101	E7
I100	A5
I101	B5
I102	A6
I103	B5
I104	A2
I105	B2
I106	A4
I107	D5
I108	B4
I109	E4
I110	F5
I111	A5
I112	A3
I113	A3
I114	C3
I115	D3
I116	E3
I117	E3
I118	F5
I119	D6
I120	C6
I121	C4
I122	D4
I123	F3
I124	F5

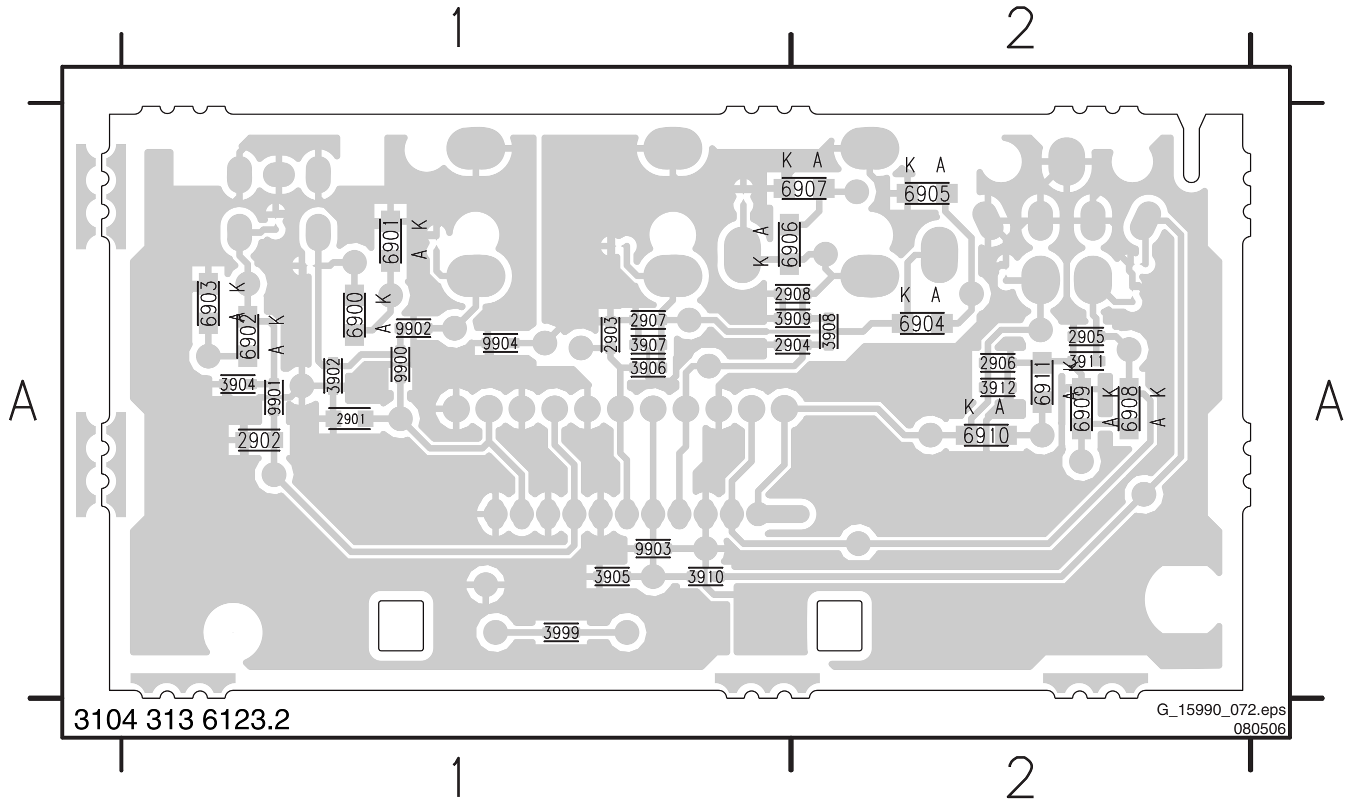
Layout Side I/O Panel (TOP 37”& 42”) (Top Side)

0936	A2	1001	A2	1002	A2	1010	A1	1M36	A2


1
2
A
A
1002
1010
5
8 9
2
3
8
2
1
2
3
4
1001
11
1
0936
11
1M36
1
PHILIPS
3104 313 6123.2
G_15990_071.eps
080506
1
2

Layout Side I/O Panel (TOP 37”& 42”) (Bottom Side)

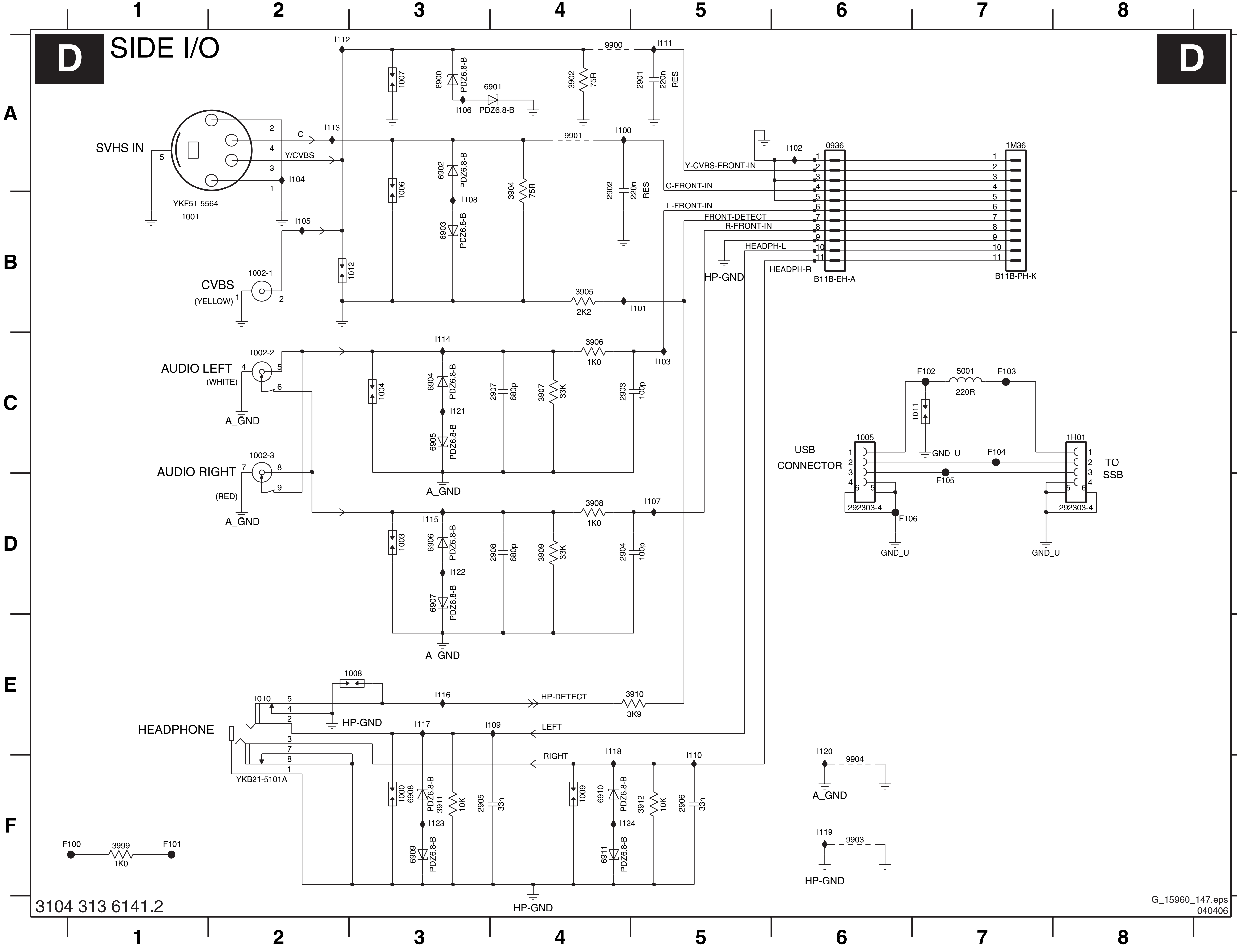
2901	A1	2904	A2	2907	A1	3904	A1	3907	A1	3910	A1	3999	A1	6902	A1	6905	A2	6908	A2	6911	A2	9902	A1
2902	A1	2905	A2	2908	A2	3905	A1	3908	A2	3911	A2	6900	A1	6903	A1	6906	A2	6909	A2	9900	A1	9903	A1
2903	A1	2906	A2	3902	A1	3906	A1	3909	A2	3912	A2	6901	A1	6904	A2	6907	A1	6910	A2	9901	A1	9904	A1


1
2
A
A
6907
6905
6906
6901
6903
6902
6900
9902
9904
2903
2907
3907
3906
2908
3909
2904
3908
6904
2905
3911
2906
3912
6911
6909
6908
6910
3904
9901
3902
9900
2901
2902
9903
3905
3910
3999
K
A
3104 313 6123.2
G_15990_072.eps
080506
1
2

Personal Notes:

E_06532_012.eps
131004

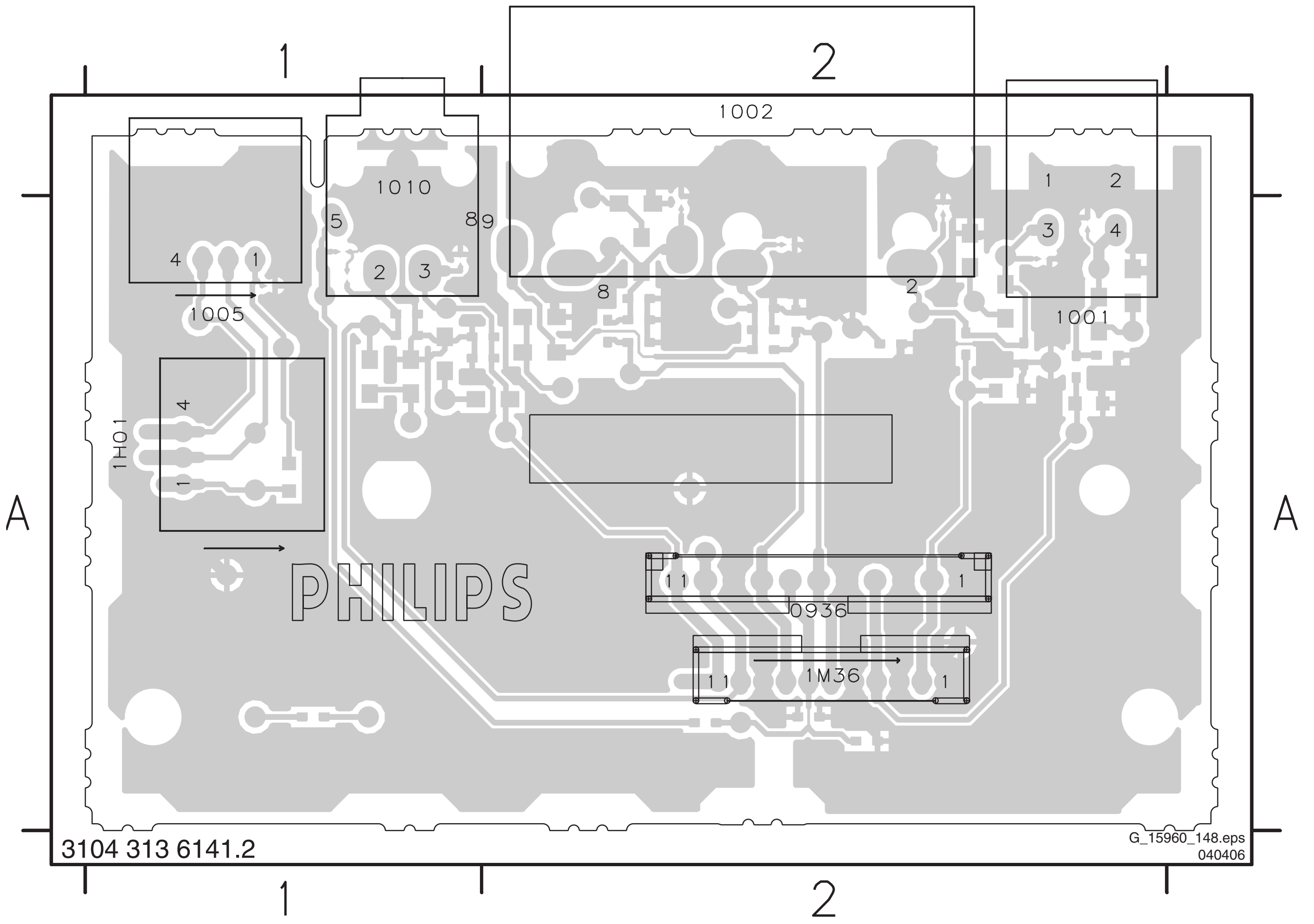
Side I/O Panel (42")


D
SIDE I/O
D
1 2 3 4 5 6 7 8
A B C D E F
SVHS IN
YKF51-5564
1001
C
Y/CVBS
I104
I105
I112
I113
I111
I100
I102
I106
I108
9900
9901
1007
1006
1012
6900 PDZ6.8-B
6901 PDZ6.8-B
6902 PDZ6.8-B
6903 PDZ6.8-B
3902 75R
3904 75R
2901 220n RES
2902 220n RES
3905 2K2
I101
CVBS
(YELLOW)
1002-1
Y-CVBS-FRONT-IN
C-FRONT-IN
L-FRONT-IN
FRONT-DETECT
R-FRONT-IN
HEADPH-L
HEADPH-R
HP-GND
0936
B11B-EH-A
1M36
B11B-PH-K
AUDIO LEFT
(WHITE)
1002-2
A_GND
AUDIO RIGHT
(RED)
1002-3
I114
I115
I121
I122
I103
I107
1004
1003
6904 PDZ6.8-B
6905 PDZ6.8-B
6906 PDZ6.8-B
6907 PDZ6.8-B
2907 680p
2908 680p
3907 33K
3909 33K
3906 1K0
3908 1K0
2903 100p
2904 100p
USB
CONNECTOR
1005
292303-4
F102
5001
220R
F103
1011
GND_U
F104
F105
F106
1H01
TO
SSB
HEADPHONE
1010
YKB21-5101A
1008
I116
HP-DETECT
3910 3K9
I117
I109
LEFT
RIGHT
I118
I110
1000
6908 PDZ6.8-B
6909 PDZ6.8-B
3911 10K
2905 33n
1009
6910 PDZ6.8-B
6911 PDZ6.8-B
3912 10K
2906 33n
I123
I124
I120
9904
I119
9903
F100
3999 1K0
F101
3104 313 6141.2
G_15960_147.eps
040406

0936	A6
1000	F3
1001	B1
1002-1	B2
1002-2	C2
1002-3	C2
1003	D3
1004	C3
1005	C6
1006	A3
1007	A3
1008	E3
1009	F4
1010	E2
1011	C7
1012	B2
1H01	C8
1M36	A7
2901	A5
2902	A4
2903	C4
2904	D4
2905	F3
2906	F5
2907	C4
2908	D4
3902	A4
3904	A4
3905	B4
3906	C4
3907	C4
3908	D4
3909	D4
3910	E5
3911	F3
3912	F5
3999	F1
5001	C7
6900	A3
6901	A4
6902	A3
6903	B3
6904	C3
6905	C3
6906	D3
6907	D3
6908	F3
6909	F3
6910	F4
6911	F4
9900	A4
9901	A4
9903	F6
9904	F6
F100	F1
F101	F1
F102	C7
F103	C7
F104	C7
F105	D7
F106	D6
I100	A4
I101	B5
I102	A6
I103	C5
I104	A2
I105	B2
I106	A3
I107	D5
I108	B3
I109	E4
I110	F5
I111	A5
I112	A2
I113	A2
I114	C3
I115	D3
I116	E3
I117	E3
I118	E4
I119	F6
I120	E6
I121	C3
I122	D3
I123	F3
I124	F4

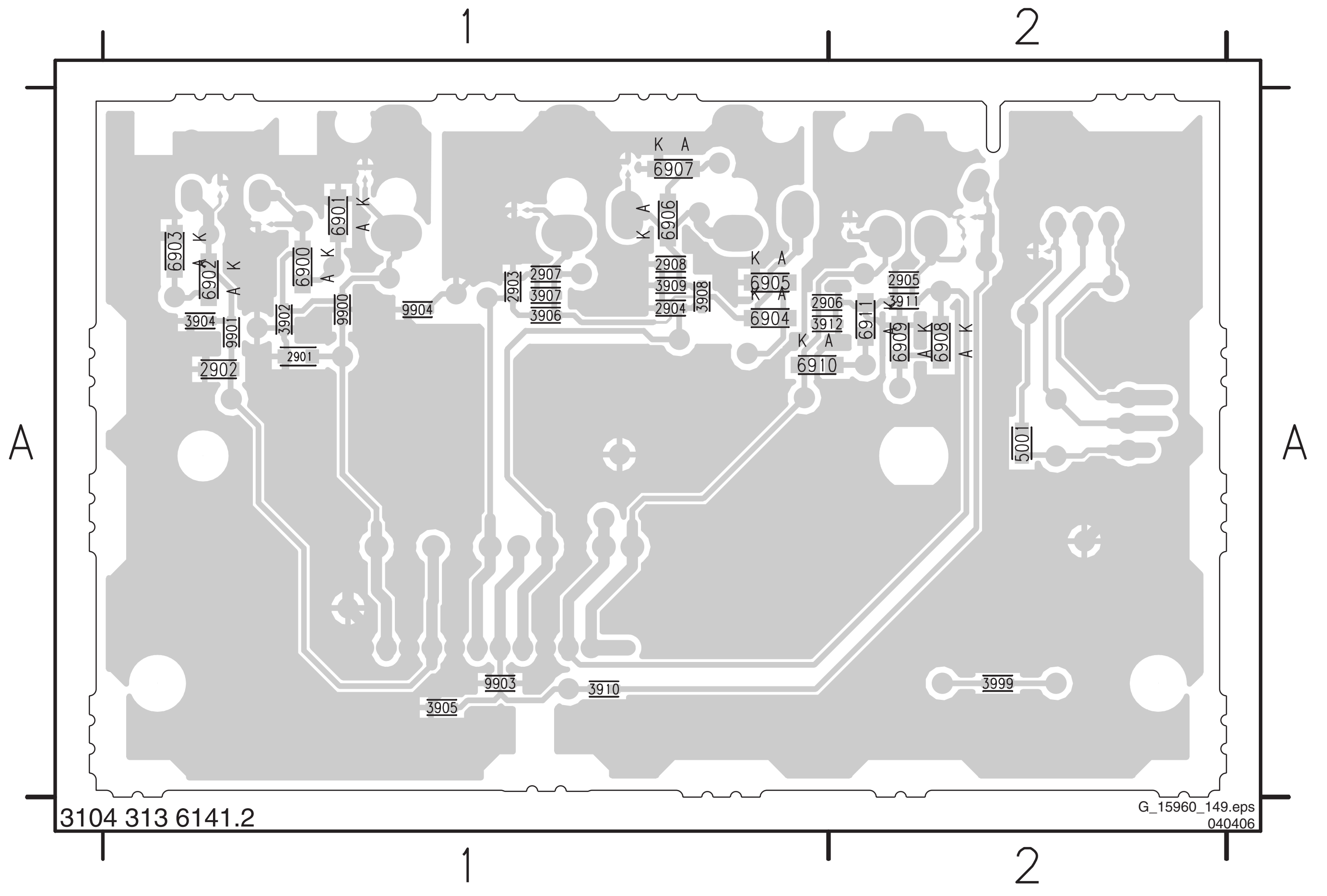
Layout Side I/O Panel (42”) (Top Side)

0936	A2	1001	A2	1002	A2	1005	A1	1010	A1	1H01	A1	1M36	A2

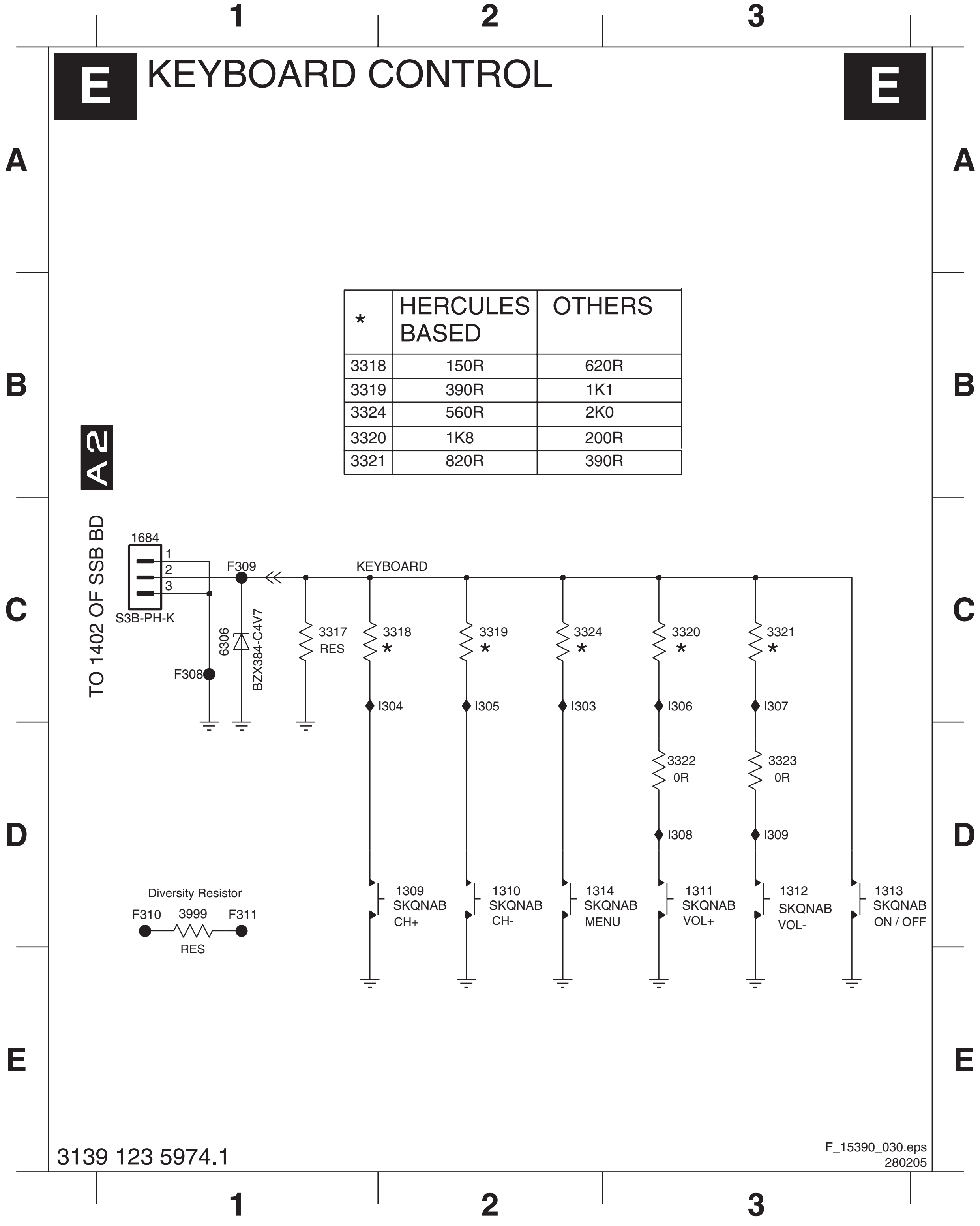

1
2
1002
1010
5
8 9
2 3
4 1
1005
1 2
3 4
1001
8
2
1H01
4
1
A
A
PHILIPS
11
1
0936
1M36
11
1
3104 313 6141.2
G_15960_148.eps
040406
1
2

Layout Side I/O Panel (42”) (Bottom Side)

2901	A1	2906	A1	3905	A1	3910	A1	6900	A1	6905	A1	6910	A1	9904	A1
2902	A1	2907	A1	3906	A1	3911	A2	6901	A1	6906	A1	6911	A1		
2903	A1	2908	A1	3907	A1	3912	A1	6902	A1	6907	A1	9900	A1		
2904	A1	3902	A1	3908	A1	3999	A2	6903	A1	6908	A2	9901	A1		
2905	A2	3904	A1	3909	A1	5001	A2	6904	A1	6909	A2	9903	A1		


1
2
A
A
6907
6906
6901
6900
6903
6902
3904
9901
3902
2901
2902
9900
9904
2903
2907
3907
3906
2908
3909
2904
3908
6905
6904
2906
3912
6911
6910
2905
3911
6909
6908
5001
9903
3905
3910
3999
3104 313 6141.2
G_15960_149.eps
040406
1
2

Control Panel (ME6 32")

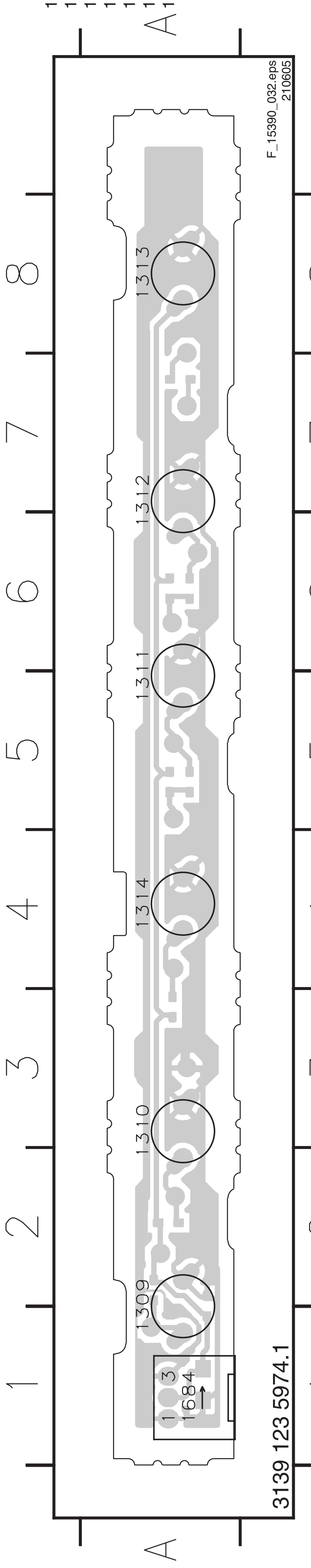

E
KEYBOARD CONTROL
E
1
2
3
A
B
C
D
E
A2
TO 1402 OF SSB BD
1684
1
2
3
S3B-PH-K
F309
F308
6306
BZX384-C4V7
KEYBOARD
3317
RES
3318
3319
3324
3320
3321
*
I304
I305
I303
I306
I307
3322
0R
3323
0R
I308
I309
1309
SKQNAB
CH+
1310
SKQNAB
CH-
1314
SKQNAB
MENU
1311
SKQNAB
VOL+
1312
SKQNAB
VOL-
1313
SKQNAB
ON / OFF
Diversity Resistor
F310
3999
F311
RES
3139 123 5974.1
F_15390_030.eps
280205

*	HERCULES BASED	OTHERS
3318	150R	620R
3319	390R	1K1
3324	560R	2K0
3320	1K8	200R
3321	820R	390R

1008	D1
1309	D2
1310	D2
1311	D3
1312	D3
1313	D3
1314	D2
1684	C1
3317	C1
3318	C2
3319	C2
3320	C3
3321	C3
3322	D3
3323	D3
3324	C2
3999	D1
6306	C1
F308	C1
F309	C1
F310	D1
F311	D1
I303	C2
I304	C2
I305	C2
I306	C3
I307	C3
I308	D3
I309	D3

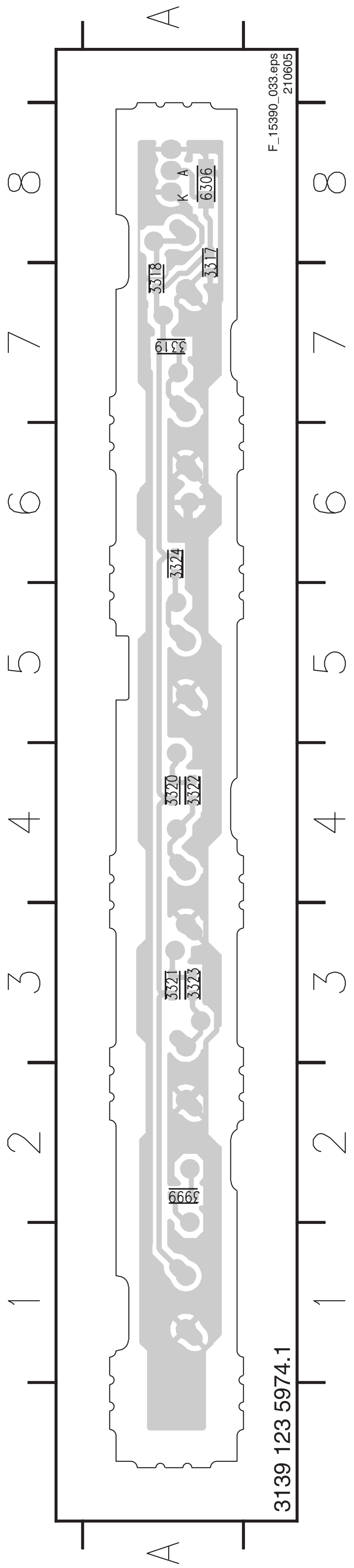
Layout Control Panel (Top Side)

1309	A1
1310	A3
1311	A5
1312	A7
1313	A8
1314	A4
1684	A1


A
1
2
3
4
5
6
7
8
1313
1312
1311
1314
1310
1309
1684
1
3
F_15390_032.eps
210605
3139 123 5974.1

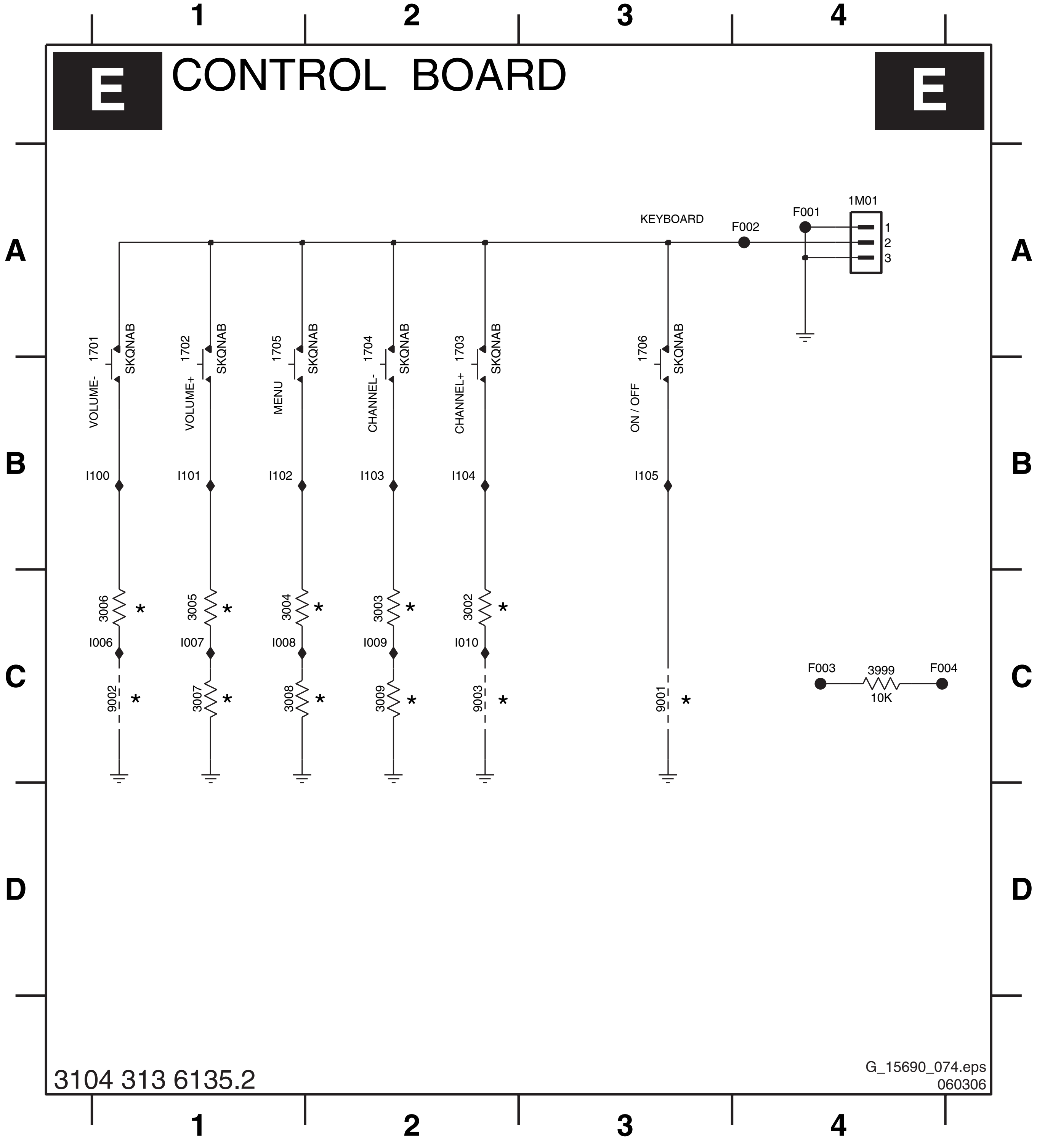
Layout Control Panel (Bottom Side)

3317	A7
3318	A7
3319	A7
3320	A4
3321	A3
3322	A4
3323	A3
3324	A6
3999	A2
6306	A8

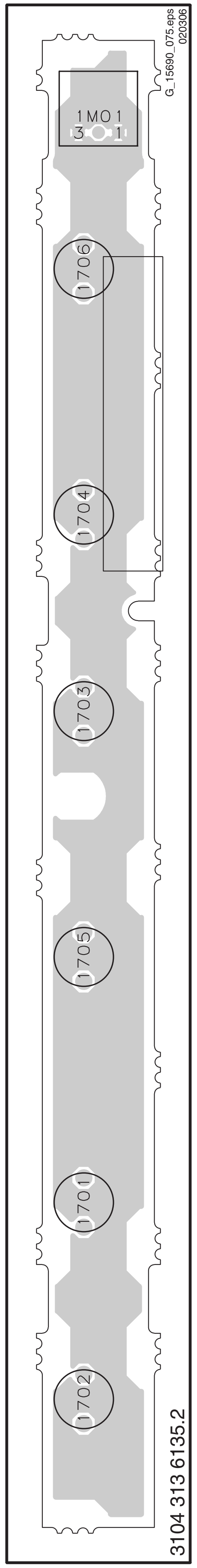

A
1
2
3
4
5
6
7
8
6306
K
A
3317
3318
3319
3324
3320
3322
3321
3323
3999
F_15390_033.eps
210605
3139 123 5974.1

Control Panel (TOP)

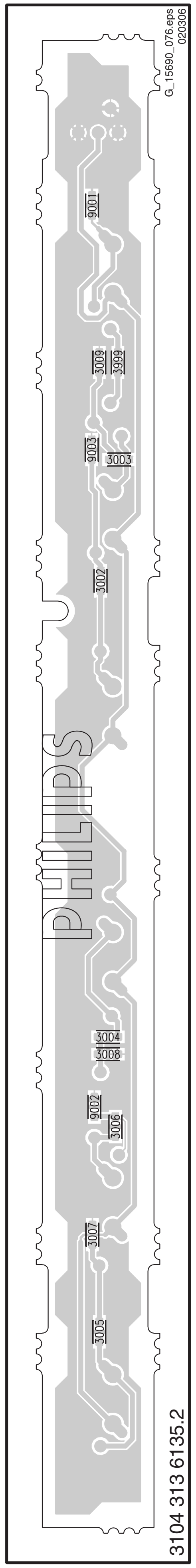
1701 A1
1702 A1
1703 A2
1704 A2
1705 A1
1706 A3
1M01 A4
3002 C2
3003 C2
3004 C1
3005 C1
3006 C1
3007 C1
3008 C1
3009 C2
3999 C4
9001 C3
9002 C1
9003 C2
F001 A4
F002 A4
F003 C4
F004 C4
I006 C1
I007 C1
I008 C1
I009 C2
I010 C2
I100 B1
I101 B1
I102 B1
I103 B2
I104 B2
I105 B3


1
2
3
4
A
B
C
D
E
CONTROL BOARD
E
KEYBOARD
F002
F001
1M01
1
2
3
1701
SKQNAB
VOLUME-
1702
SKQNAB
VOLUME+
1705
SKQNAB
MENU
1704
SKQNAB
CHANNEL-
1703
SKQNAB
CHANNEL+
1706
SKQNAB
ON / OFF
I100
I101
I102
I103
I104
I105
3006
3005
3004
3003
3002
*
I006
I007
I008
I009
I010
9002
3007
3008
3009
9003
9001
F003
3999
10K
F004
3104 313 6135.2
G_15690_074.eps
060306

Layout Control Panel (Top Side)

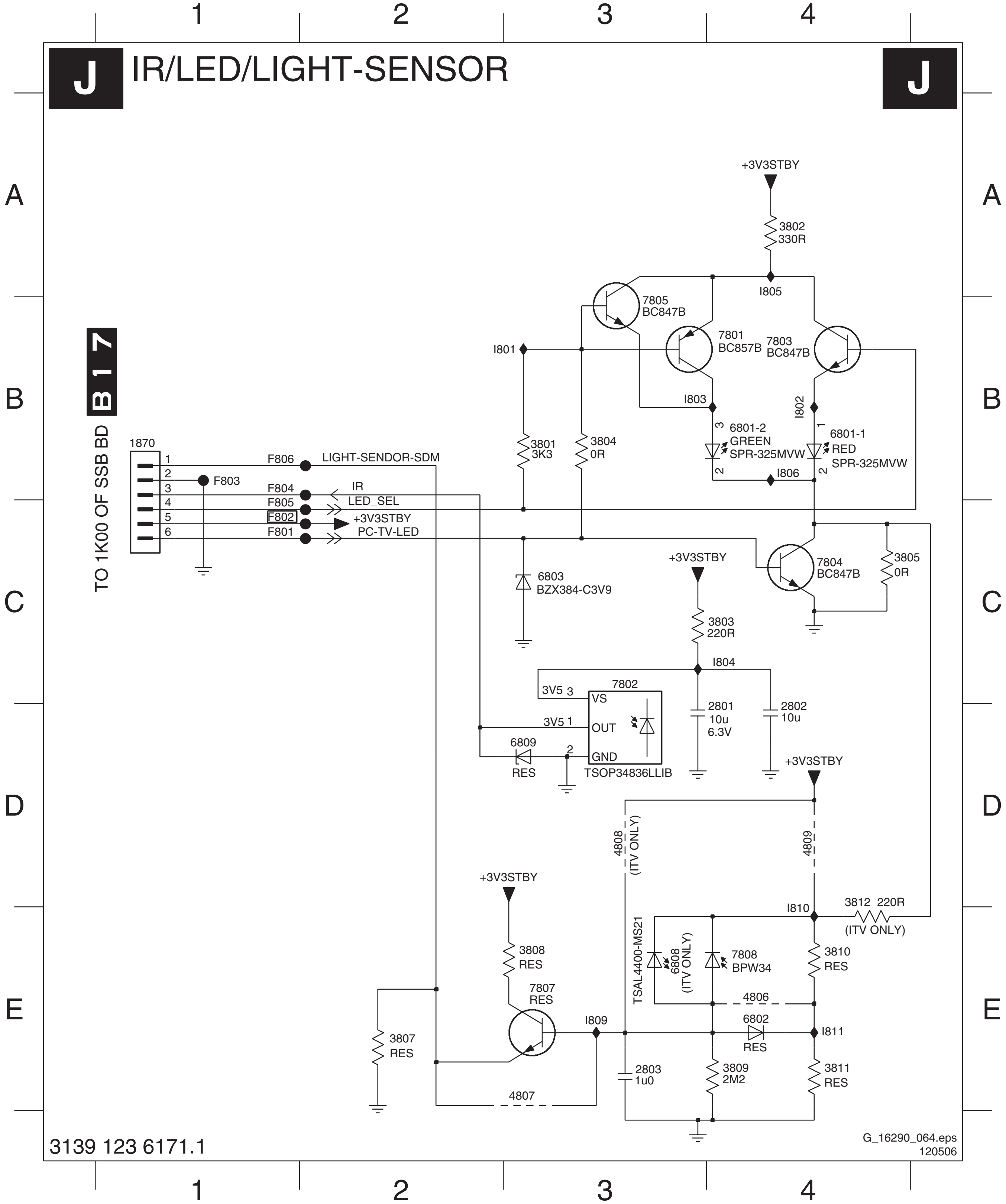

G_15690_075.eps
020306
1M01
3
1
1706
1704
1703
1705
1701
1702
3104 313 6135.2

Layout Control Panel (Bottom Side)


G_15690_076.eps
020306
9001
3009
3999
9003
3003
3002
PHILIPS
3004
3008
9002
3006
3007
3005
3104 313 6135.2

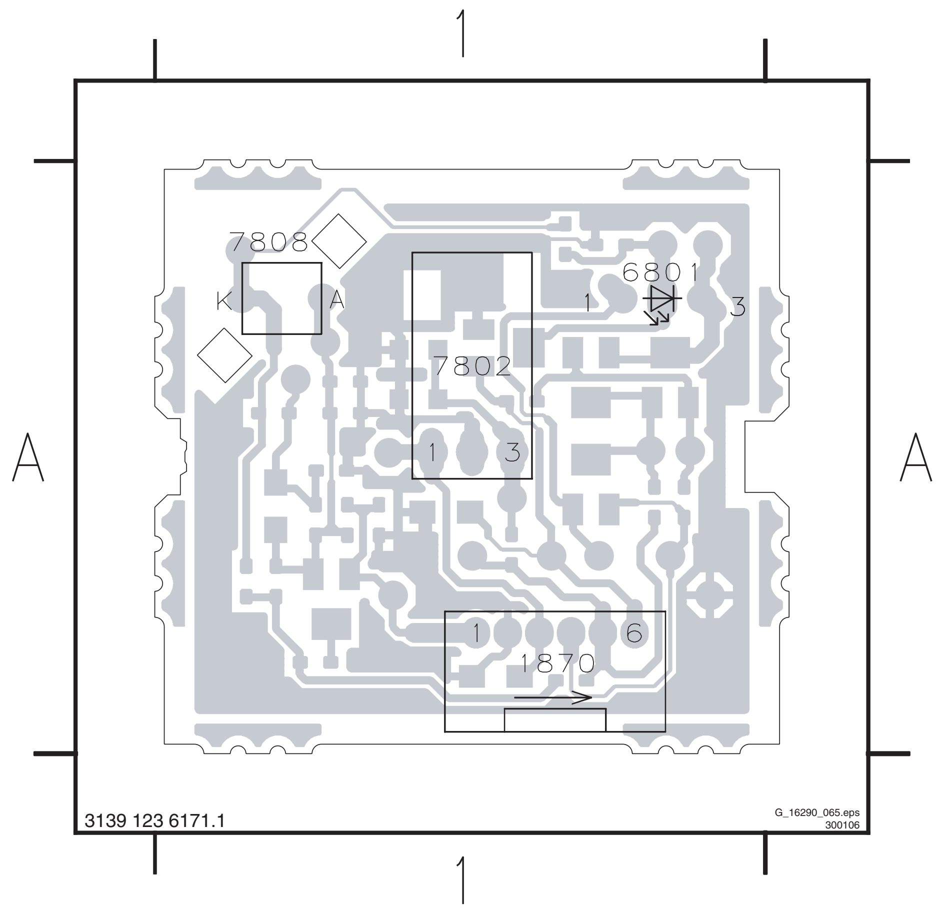
Front IR / LED Panel (ME6)

1870	B1
2801	D4
2802	D4
2803	E3
3801	B3
3802	A4
3803	C4
3804	B3
3805	C4
3807	E2
3808	E3
3809	E4
3810	E4
3811	E4
3812	D4
4806	E4
4807	E3
4808	D3
4809	D4
6801-1	B4
6801-2	B4
6802	E4
6803	C3
6809	D3
7801	B4
7802	C3
7803	B4
7804	C4
7805	B3
7807	E3
7808	E4
F801	C1
F802	C1
F803	B1
F804	B1
F805	C1
F806	B1
I801	B3
I802	B4
I803	B3
I804	C4
I805	A4
I806	B4
I809	E3
I810	E4
I811	E4


1
2
3
4
A
B
C
D
E
J
IR/LED/LIGHT-SENSOR
J
B 1 7
TO 1K00 OF SSB BD
1870
1
2
3
4
5
6
F806
LIGHT-SENDOR-SDM
F803
F804
IR
F805
LED_SEL
F802
+3V3STBY
F801
PC-TV-LED
+3V3STBY
3802
330R
I805
7805
BC847B
7801
BC857B
7803
BC847B
I801
I803
I802
3801
3K3
3804
0R
6801-2
GREEN
SPR-325MVW
6801-1
RED
SPR-325MVW
I806
+3V3STBY
7804
BC847B
3805
0R
6803
BZX384-C3V9
3803
220R
I804
7802
3V5 3
VS
3V5 1
OUT
6809
RES
2
GND
TSOP34836LLIB
2801
10u
6.3V
2802
10u
+3V3STBY
4808
(ITV ONLY)
4809
+3V3STBY
3808
RES
7807
RES
I810
3812 220R
(ITV ONLY)
TSAL4400-MS21
6808
(ITV ONLY)
7808
BPW34
3810
RES
4806
6802
RES
I811
I809
3807
RES
2803
1u0
3809
2M2
3811
RES
4807
3139 123 6171.1
G_16290_064.eps
120506

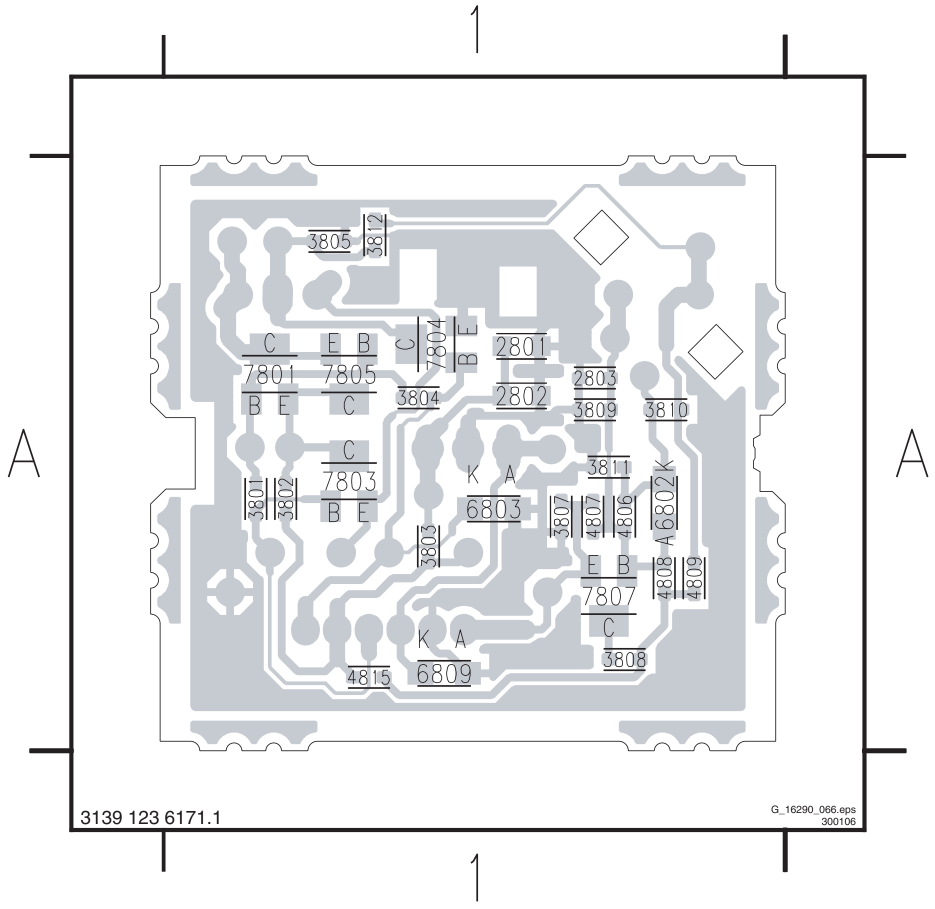
Layout Front IR / LED Panel (ME6) (Top Side)

1870	A1
6801	A1
7802	A1
7808	A1

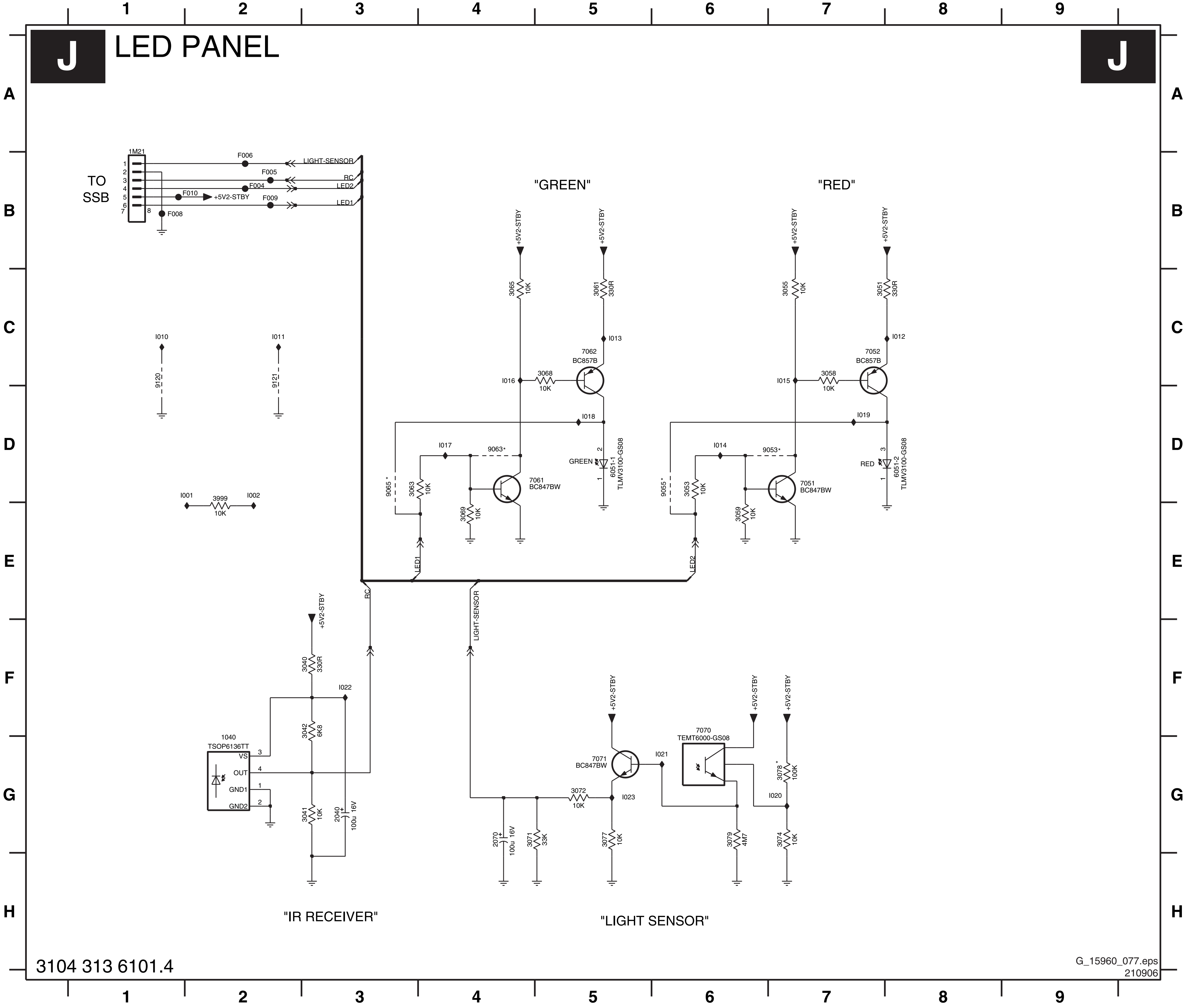

1
A
A
7808
K
A
6801
1
3
7802
1
3
1
6
1870
3139 123 6171.1
G_16290_065.eps
300106
1

Layout Front IR / LED Panel (ME6) (Bottom Side)

2801	A1
2802	A1
2803	A1
3801	A1
3802	A1
3803	A1
3804	A1
3805	A1
3807	A1
3808	A1
3809	A1
3810	A1
3811	A1
3812	A1
4806	A1
4807	A1
4808	A1
4809	A1
4815	A1
6802	A1
6803	A1
6809	A1
7801	A1
7803	A1
7804	A1
7805	A1
7807	A1


1
A
A
3805
3812
C
7801
B E
E B
7805
C
C
7804
B E
2801
2802
2803
3809
3810
3804
C
7803
B E
3801
3802
K A
6803
3811
3807
4807
4806
A6802K
3803
E B
7807
C
3808
4808
4809
K A
4815
6809
3139 123 6171.1
G_16290_066.eps
300106
1

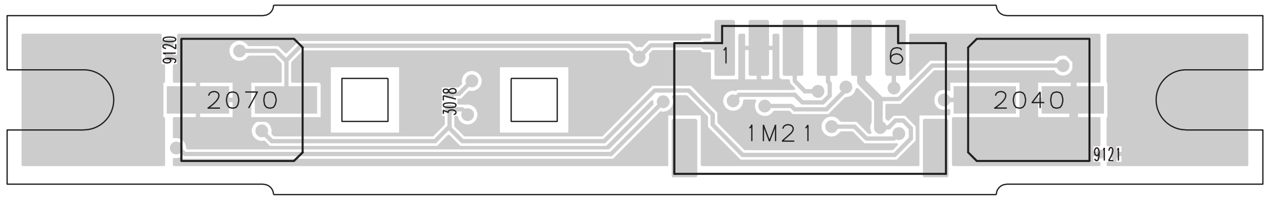
LED Panel (TOP)



J
LED PANEL
TO SSB
1M21
F006
F005
F004
F010
F009
F008
LIGHT-SENSOR
RC
LED2
LED1
+5V2-STBY
"GREEN"
"RED"
3065 10K
3061 330R
I013
7062 BC857B
I016
3068 10K
I018
I017
9063*
9065*
3063 10K
3069 10K
7061 BC847BW
GREEN
6051-1 TLMV3100-GS08
3055 10K
3051 330R
I012
7052 BC857B
I015
3058 10K
I019
I014
9053*
9055*
3053 10K
3059 10K
7051 BC847BW
RED
6051-2 TLMV3100-GS08
I010
I011
9120
9121
I001
3999 10K
I002
3040 330R
I022
3042 6K8
1040 TSOP6136TT
VS
OUT
GND1
GND2
3041 10K
2040 100u 16V
"IR RECEIVER"
7071 BC847BW
I021
7070 TEMT6000-GS08
3072 10K
I023
I020
3078* 100K
2070 100u 16V
3071 33K
3077 10K
3079 4M7
3074 10K
"LIGHT SENSOR"
3104 313 6101.4
G_15960_077.eps
210906

1040	G2
1M20	B1
2040	G3
2070	G4
3040	F3
3042	F3
3041	G3
3042	F3
3051	C7
3053	D6
3055	C7
3058	C7
3059	E6
3061	C5
3063	D3
3065	C4
3068	C5
3069	E4
3071	G4
3072	G5
3074	G7
3077	G5
3078	G7
3079	G6
3999	D2
6051-1	D5
6051-2	D8
7051	D7
7052	C7
7061	D4
7062	C5
7070	G6
7071	G5
9053	D7
9055	D6
9063	D4
9065	D3
9120	C1
9121	C2
F004	B2
F005	B2
F006	B2
F008	B1
F009	B2
F010	B2
I001	D2
I002	D2
I010	C1
I011	C2
I012	C8
I013	C5
I014	D6
I015	C7
I016	C4
I017	D4
I018	D5
I019	D7
I020	G7
I021	G6
I022	F3
I023	G5

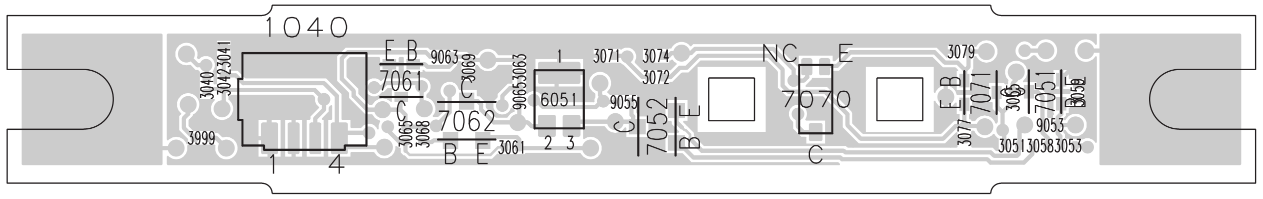
Layout LED Panel (TOP) (Top Side)


9120
2070
3078
1
6
1M21
2040
9121

3104 313 6101.4

G_15690_078.eps
020306

Layout LED Panel ((TOP) (Bottom Side)


1040
E B
9063
3069
7061
C
7062
B E
3040
3042
3041
3999
1
4
3065
3068
9065
3063
6051
1
2 3
3061
3071
3074
3072
9055
C
7052
B E
NC
E
7070
C
3079
E B
7071
3077
3060
7051
3050
9053
3051
3058
3053

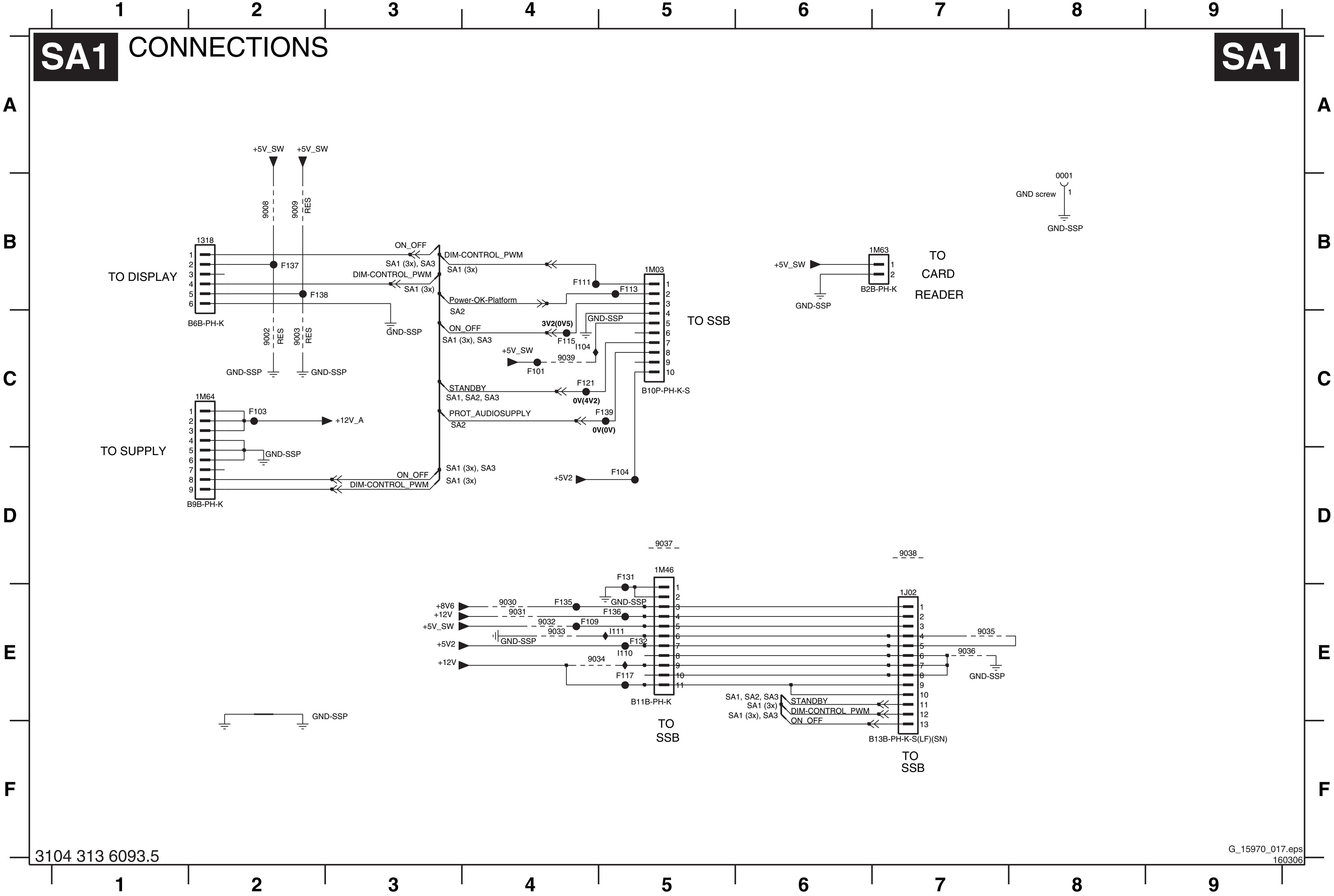
3104 313 6101.4

G_15690_079.eps
020306

Personal Notes:

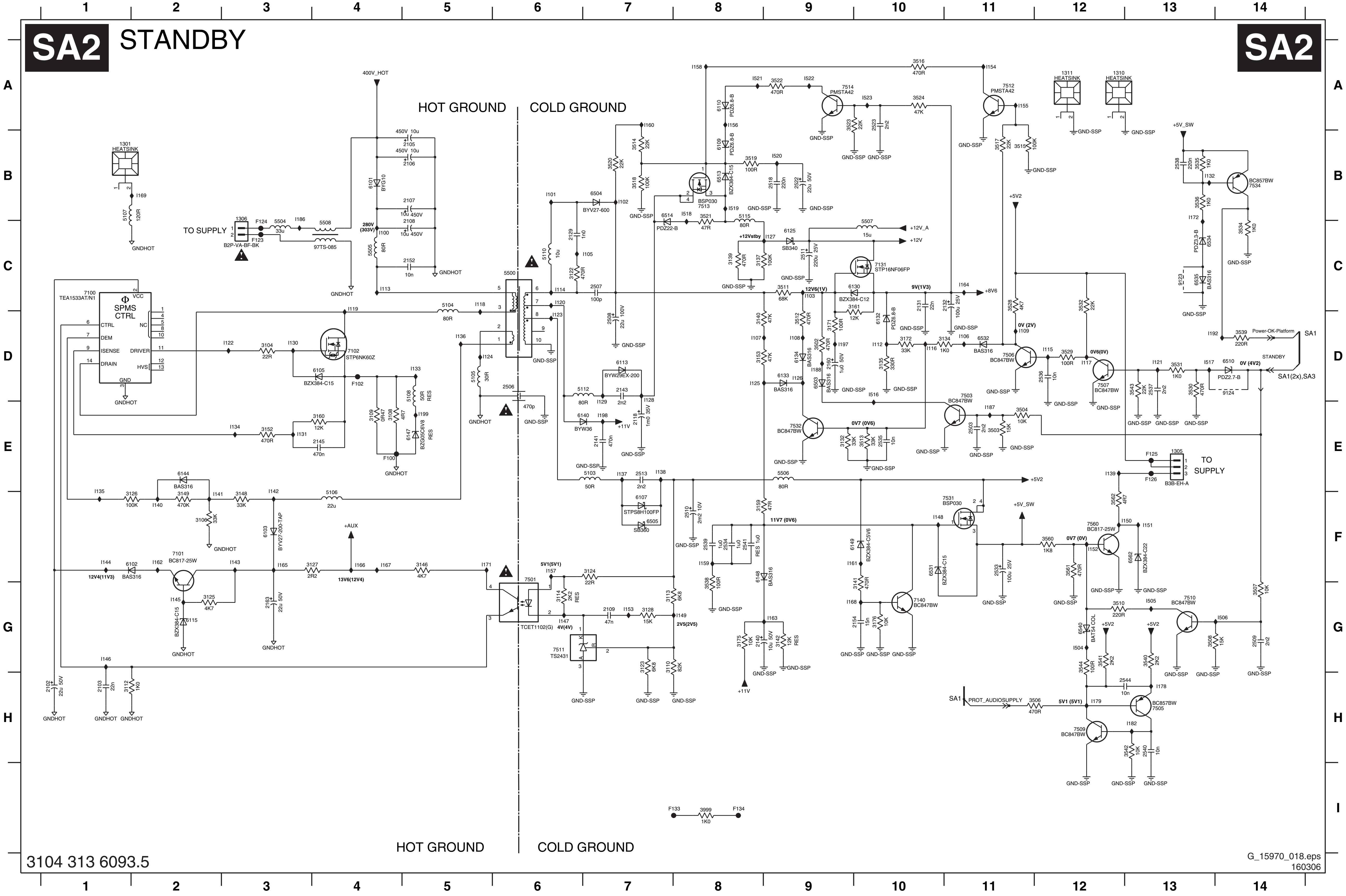
E_06532_012.eps
131004

Standby & Audio Panel: Connections


SA1
CONNECTIONS
SA1
1 2 3 4 5 6 7 8 9
A B C D E F
+5V_SW
+5V_SW
9008
9009 RES
1318
TO DISPLAY
F137
F138
B6B-PH-K
9002 RES
9003 RES
GND-SSP
GND-SSP
ON_OFF
SA1 (3x), SA3
DIM-CONTROL_PWM
SA1 (3x)
GND-SSP
DIM-CONTROL_PWM
SA1 (3x)
F111
F113
1M03
Power-OK-Platform
SA2
GND-SSP
ON_OFF
SA1 (3x), SA3
3V2(0V5)
F115
I104
+5V_SW
9039
F101
TO SSB
B10P-PH-K-S
STANDBY
SA1, SA2, SA3
F121
0V(4V2)
PROT_AUDIOSUPPLY
SA2
F139
0V(0V)
1M64
F103
+12V_A
TO SUPPLY
GND-SSP
ON_OFF
DIM-CONTROL_PWM
SA1 (3x), SA3
SA1 (3x)
B9B-PH-K
+5V2
F104
+5V_SW
1M63
B2B-PH-K
GND-SSP
TO CARD READER
0001
GND screw
GND-SSP
9037
9038
F131
1M46
+8V6
+12V
+5V_SW
+5V2
+12V
9030
9031
9032
9033
9034
F135
F136
F109
I111
F132
I110
F117
GND-SSP
GND-SSP
B11B-PH-K
TO SSB
1J02
9035
9036
GND-SSP
SA1, SA2, SA3
SA1 (3x)
SA1 (3x), SA3
STANDBY
DIM-CONTROL_PWM
ON_OFF
B13B-PH-K-S(LF)(SN)
TO SSB
GND-SSP
3104 313 6093.5
G_15970_017.eps
160306

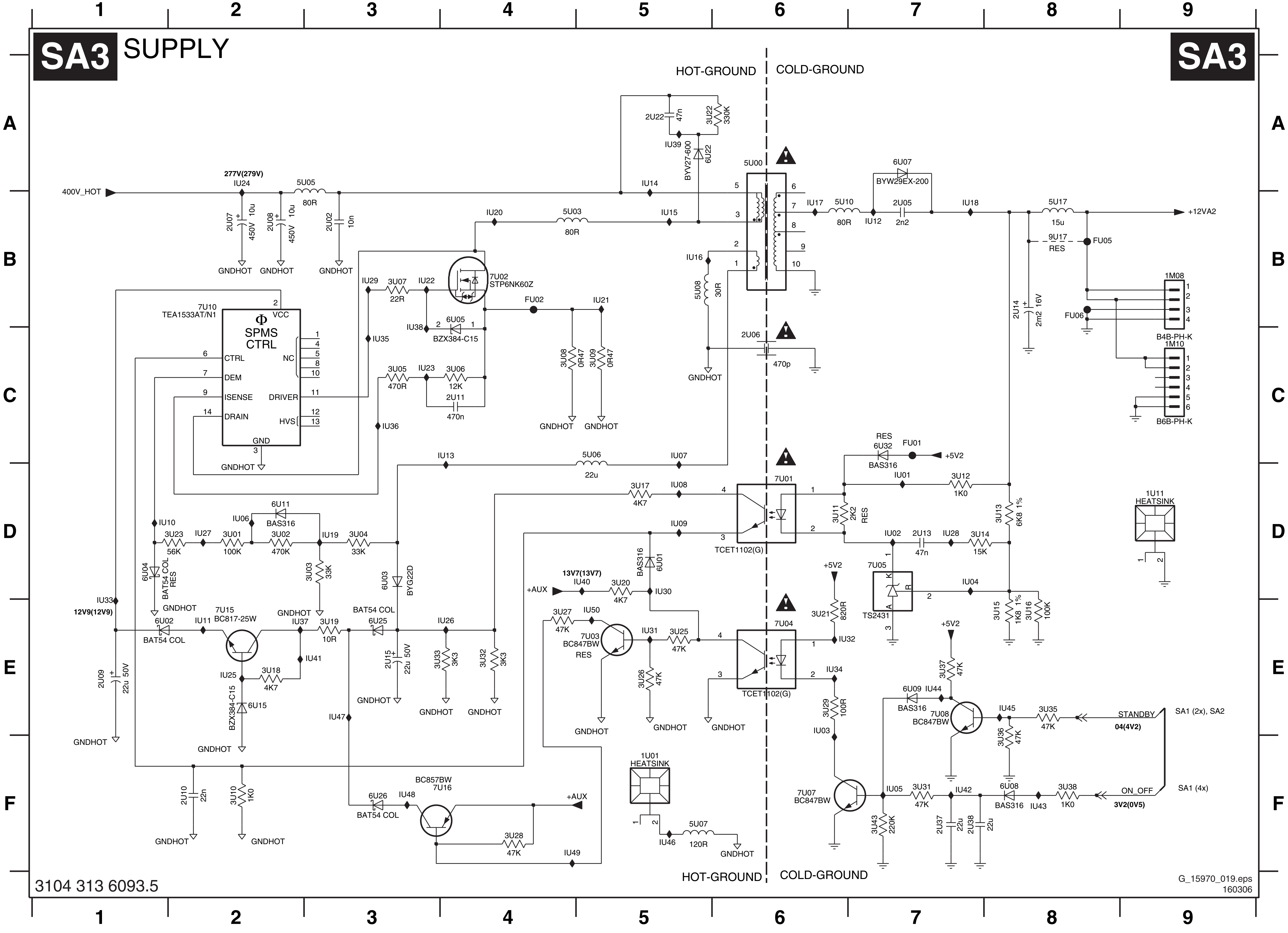
0001	A8
1318	B2
1J02	E7
1M03	B5
1M46	D5
1M63	B7
1M64	C2
9002	C2
9003	C2
9008	B2
9009	B2
9030	E4
9031	E4
9032	E4
9033	E4
9034	E4
9035	E7
9036	E7
9037	D5
9038	D7
9039	C4
F101	C4
F103	C2
F104	D5
F109	E4
F111	B4
F113	B5
F115	C4
F117	E5
F121	C4
F131	D5
F132	E5
F135	E4
F136	E5
F137	B2
F138	B2
F139	C5
I104	C4
I110	E5
I111	E5

Standby & Audio Panel: Standby


SA2
STANDBY
SA2
HOT GROUND
COLD GROUND
TO SUPPLY
400V_HOT
TEA1533AT/N1
SPMS CTRL
VCC
CTRL
DEM
ISENSE
DRAIN
NC
DRIVER
HVS
GND
STP6NK60Z
BC817-25W
TCET1102(G)
TS2431
BSP030
PMSTA42
STP16NF06FP
BC847BW
BC857BW
+12V_A
+12V
+8V6
+5V2
+5V_SW
+11V
+AUX
Power-OK-Platform
STANDBY
SA1
SA1(2x),SA3
TO SUPPLY
PROT_AUDIOSUPPLY
GNDHOT
GND-SSP
HEATSINK
1 2 3 4 5 6 7 8 9 10 11 12 13 14
A B C D E F G H I
3104 313 6093.5
HOT GROUND
COLD GROUND
G_15970_018.eps
160306

1301	B1
1305	E13
1306	B3
1310	A12
1311	A12
2102	H1
2103	H1
2105	B5
2106	B5
2107	B5
2108	B5
2109	G7
2118	E7
2129	C6
2131	C10
2132	C11
2140	G8
2141	E7
2143	D7
2145	E4
2152	C5
2154	G10
2160	D9
2163	G3
2503	E11
2506	D6
2507	C7
2508	D7
2509	G14
2510	F8
2511	C9
2513	E7
2518	B9
2522	B9
2523	A10
2533	F11
2534	F8
2535	E10
2536	D12
2537	D13
2538	B13
2539	F8
2540	H13
2541	F8
2544	H13
3104	D3
3106	F2
3108	E4
3109	E4
3110	G7
3112	H1
3113	G7
3114	G6
3122	C6
3123	G7
3124	F7
3125	G2
3126	F2
3127	F4
3128	G7
3132	E9
3134	D11
3135	D10
3137	C8
3139	C8
3140	D8
3141	G10
3142	G9
3146	F5
3148	F3
3149	F2
3152	E3
3153	D8
3159	F8
3160	E4
3161	C10
3171	D9
3172	D10
3175	G8
3176	G10
3502	D9
3503	E11
3504	E11
3506	H12
3507	G14
3508	G13
3510	G12
3511	C9
3512	D9
3513	E10
3514	B7
3515	B11
3516	A10
3517	B11
3518	B7
3519	B8
3520	B7
3521	B8
3522	A9
3523	A9
3524	A10
3528	C11
3529	D12
3530	D13
3531	D13
3532	C12
3534	C14
3535	B13
3536	B13
3538	G8
3539	D14
3540	G13
3541	G12
3542	H13
3543	D13
3544	G12
3560	F12
3561	F12
3562	F12
3999	I8
5103	E7
5104	C5
5105	D5
5106	F4
5107	B1
5108	D5
5110	C6
5112	D7
5115	B8
5500	C6
5504	C3
5505	C4
5506	E9
5507	C10
5508	C4
6101	B4
6102	F2
6103	F3
6105	D4
6107	F7
6109	B8
6110	A8
6113	D7
6115	G2
6125	C9
6130	C10
6132	D10
6133	D9
6134	D9
6140	E7
6144	E2
6147	E5
6148	F8
6149	F9
6503	D9
6504	B7
6505	F7
6510	D14
6513	B8
6514	B7
6531	F10
6532	D11
6534	C13
6535	C13
6540	G12
6562	F13
7100	C1
7101	F2
7102	D4
7131	C10
7140	G10
7501	F6
7503	D11
7505	H13
7506	D11
7507	D12
7509	H12
7510	G13
7511	G6
7512	A11
7513	B8
7514	A9
7531	F10
7532	E9
7534	B14
7560	F12
9123	C13
9124	D14
F100	E4
F102	D4
F123	C3
F124	C3
F125	E13
F126	E13
F133	I8
F134	I8
I100	C4
I101	B6
I102	B7
I103	C9
I105	C7
I106	D11
I107	D8
I108	D9
I109	D11
I112	D10
I113	C4
I114	C6
I115	D12
I116	D10
I117	D12
I118	C5
I119	C4
I120	C6
I121	D13
I122	D3
I123	D6
I124	D5
I125	D8
I126	D9
I127	C9
I128	D7
I129	E7
I130	D3
I131	E3
I132	B13
I133	D5
I134	E3
I135	E1
I136	D5
I137	E7
I138	E7
I139	E12
I140	F2
I141	F2
I142	E3
I143	F3
I144	F1
I145	G2
I146	G1
I147	G6
I148	F10
I149	G8
I150	F13
I151	F13
I152	F12
I153	G7
I154	A11
I155	A11
I156	A8
I157	F6
I158	A8
I159	F8
I160	A7
I161	F9
I162	F2
I163	G9
I164	C11
I165	F3
I166	F4
I167	F4
I168	G9
I169	B2
I171	F5
I172	B13
I178	H13
I179	H12
I182	H13
I186	B3
I187	E11
I188	D9
I192	D13
I197	D9
I198	E7
I199	E5
I504	G12
I505	G13
I506	G14
I516	D10
I517	D13
I518	B8
I519	B8
I520	B9
I521	A8
I522	A9
I523	A10

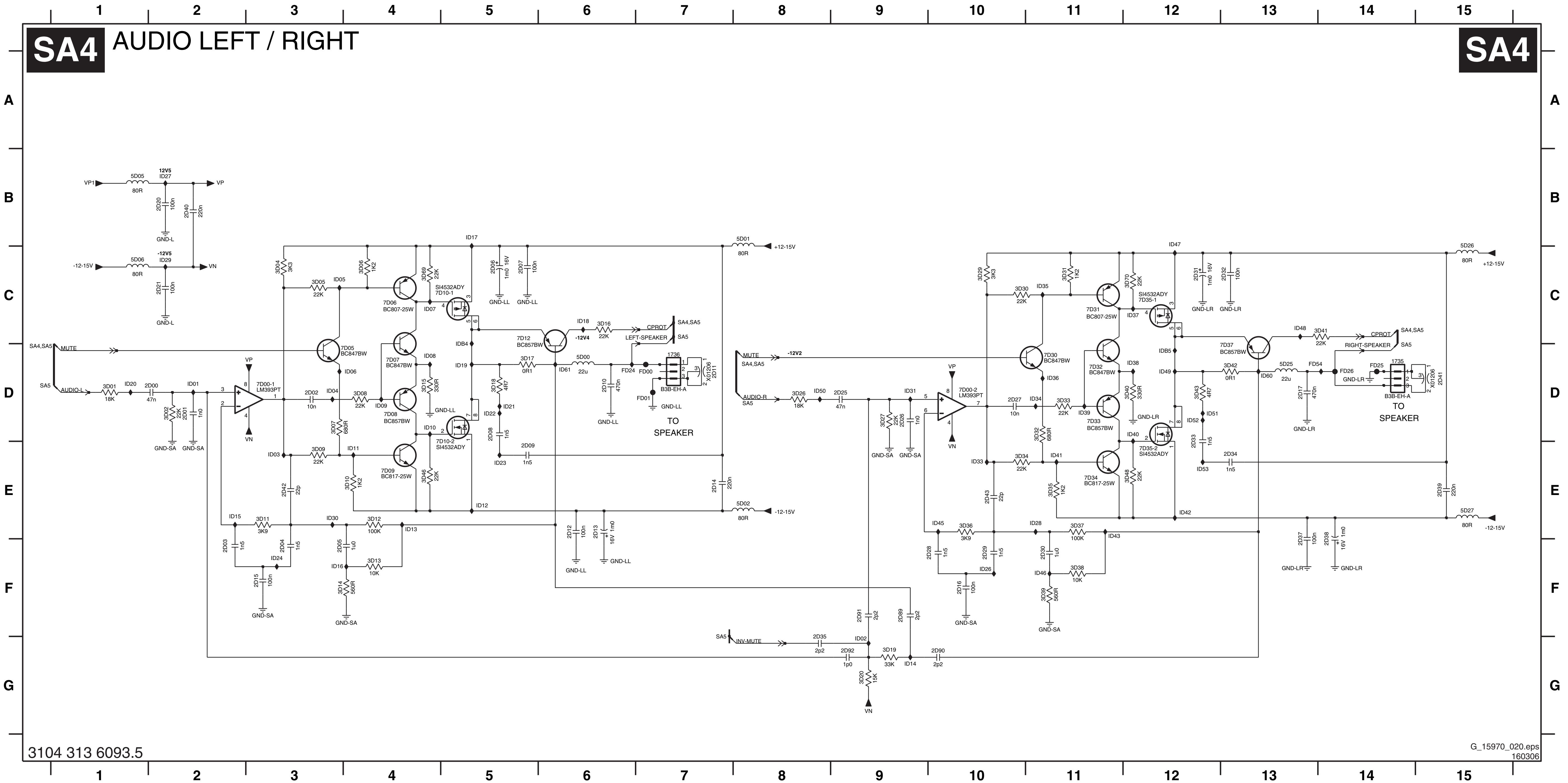
Standby & Audio Panel: Supply


SA3
SUPPLY
SA3
1 2 3 4 5 6 7 8 9
A B C D E F
HOT-GROUND
COLD-GROUND
400V_HOT
277V(279V)
IU24
5U05
80R
2U07
450V 10u
2U08
450V 10u
2U02
10n
GNDHOT
2U22
47n
3U22
330K
IU39
BYV27-600
6U22
IU14
IU15
IU20
5U03
80R
5U00
6U07
BYW29EX-200
IU17
5U10
80R
IU12
2U05
2n2
IU18
5U17
15u
+12VA2
9U17
RES
FU05
1M08
B4B-PH-K
1M10
B6B-PH-K
FU06
2U14
2m2 16V
IU16
5U08
30R
2U06
470p
7U02
STP6NK60Z
IU29
3U07
22R
IU22
FU02
IU21
IU38
6U05
BZX384-C15
IU35
3U08
0R47
3U09
0R47
7U10
TEA1533AT/N1
SPMS
CTRL
VCC
CTRL
DEM
ISENSE
DRAIN
NC
DRIVER
HVS
GND
3U05
470R
IU23
3U06
12K
2U11
470n
IU36
IU13
5U06
22u
IU07
3U17
4K7
IU08
7U01
TCET1102(G)
RES
6U32
BAS316
FU01
+5V2
IU01
3U12
1K0
3U11
2K2
RES
3U13
6K8 1%
1U11
HEATSINK
IU10
3U23
56K
IU27
3U01
100K
IU06
6U11
BAS316
3U02
470K
IU19
3U04
33K
3U03
33K
6U03
BYG22D
IU09
BAS316
6U01
IU02
2U13
47n
IU28
3U14
15K
7U05
TS2431
IU04
3U15
1K8 1%
3U16
100K
3U21
820R
IU32
6U04
BAT54 COL
RES
IU33
12V9(12V9)
GNDHOT
7U15
BC817-25W
6U02
BAT54 COL
IU11
IU37
3U19
10R
6U25
BAT54 COL
IU26
+AUX
13V7(13V7)
IU40
3U20
4K7
IU30
3U27
47K
IU50
7U03
BC847BW
RES
IU31
3U25
47K
7U04
IU34
IU41
IU25
3U18
4K7
6U15
BZX384-C15
2U15
22u 50V
3U33
3K3
3U32
3K3
3U26
47K
3U29
100R
IU03
+5V2
3U37
47K
6U09
IU44
BAS316
7U08
BC847BW
IU45
3U35
47K
STANDBY
04(4V2)
SA1 (2x), SA2
3U36
47K
2U09
22u 50V
IU47
2U10
22n
3U10
1K0
BC857BW
7U16
6U26
BAT54 COL
IU48
3U28
47K
IU49
1U01
HEATSINK
5U07
120R
IU46
7U07
BC847BW
IU05
3U31
47K
IU42
6U08
BAS316
IU43
3U38
1K0
ON_OFF
3V2(0V5)
SA1 (4x)
3U43
220K
2U37
22u
2U38
22u
3104 313 6093.5
G_15970_019.eps
160306

1M08	B9
1M10	C9
1U01	F5
1U11	D9
2U02	B3
2U05	B7
2U06	C6
2U07	B2
2U08	B2
2U09	E1
2U10	F2
2U11	C4
2U13	D7
2U14	B8
2U15	E3
2U22	A5
2U37	F7
2U38	F7
3U01	D2
3U02	D2
3U03	D3
3U04	D3
3U05	C3
3U06	C4
3U07	B3
3U08	C4
3U09	C5
3U10	F2
3U11	D6
3U12	D7
3U13	D8
3U14	D7
3U15	E8
3U16	E8
3U17	D5
3U18	E2
3U19	E3
3U20	D5
3U21	E6
3U22	A5
3U23	D2
3U25	E5
3U26	E5
3U27	E4
3U28	F4
3U29	E6
3U31	F7
3U32	E4
3U33	E3
3U35	E8
3U36	F8
3U37	E7
3U38	F8
3U43	F7
5U00	A6
5U03	B4
5U05	A3
5U06	C5
5U07	F5
5U08	B5
5U10	B6
5U17	B8
6U01	D5
6U02	E1
6U03	D3
6U04	D1
6U05	B4
6U07	A7
6U08	F8
6U09	E7
6U11	D2
6U15	E2
6U22	A5
6U25	E3
6U26	F3
6U32	C7
7U01	D6
7U02	B4
7U03	E5
7U04	E6
7U05	D7
7U07	F6
7U08	E7
7U10	B2
7U15	E2
7U16	F4
9U17	B8
FU01	C7
FU02	B4
FU05	B8
FU06	B8
IU01	D7
IU02	D7
IU03	E6
IU04	D7
IU05	F7
IU06	D2
IU07	C5
IU08	D5
IU09	D5
IU10	D1
IU11	E2
IU12	B7
IU13	C4
IU14	A5
IU15	B5
IU16	B5
IU17	B6
IU18	B7
IU19	D3
IU20	B4
IU21	B5
IU22	B3
IU23	C3
IU24	A2
IU25	E2
IU26	E4
IU27	D2
IU28	D7
IU29	B3
IU30	D5
IU31	E5
IU32	E6
IU33	E1
IU34	E6
IU35	C3
IU36	C3
IU37	E2
IU38	B3
IU39	A5
IU40	D5
IU41	E3
IU42	F7
IU43	F8
IU44	E7
IU45	E8
IU46	F5
IU47	E3
IU48	F3
IU49	F4
IU50	E5

Standby & Audio Panel: Audio Left / Right

1735	D14
1736	D7
2D00	D2
2D01	D2
2D02	D3
2D03	F2
2D04	F3
2D05	F3
2D06	C5
2D07	C5
2D08	D5
2D09	E5
2D10	D6
2D11	D7
2D12	E6
2D13	E6
2D14	E7
2D15	F3
2D16	F10
2D17	D13
2D20	B2
2D21	C2
2D25	D9
2D26	D9
2D27	D10
2D28	F9
2D29	F10
2D30	F11
2D31	C12
2D32	C13
2D33	D12
2D34	E13
2D35	G8
2D37	E13
2D38	E14
2D39	E15
2D40	B2
2D41	D15
2D42	E3
2D43	E10
2D89	F9
2D90	G10
2D91	F9
2D92	G9
3D01	D1
3D02	D2
3D04	C3
3D05	C3
3D06	C4
3D07	D3
3D08	D4
3D09	E3
3D10	E4
3D11	E3
3D12	E4
3D13	F4
3D14	F3
3D15	D4
3D16	C6
3D17	D5
3D18	D5
3D19	G9
3D20	G9
3D26	D8
3D27	D9
3D29	C10
3D30	C10
3D31	C11
3D32	D11
3D33	D11
3D34	E10
3D35	E11
3D36	E10
3D37	E11
3D38	F11
3D39	F11
3D40	D12
3D41	C14
3D42	D13
3D43	D12
3D46	E4
3D48	E12
3D69	C4
3D70	C12
5D00	D6
5D01	B8
5D02	E8
5D05	B1
5D06	C1
5D25	D13
5D26	C15
5D27	E15
7D00-1	D3
7D00-2	D10
7D05	D3
7D06	C4
7D07	D4
7D08	D4
7D09	E4
7D10-1	C4
7D10-2	E4
7D12	C5
7D30	D11
7D31	C11
7D32	D11
7D33	D11
7D34	E11
7D35-1	C12
7D35-2	E12
7D37	C12
FD00	D7
FD01	D7
FD24	D6
FD25	D14
FD26	D14
FD54	D13
ID01	D2
ID02	G9
ID03	E3
ID04	D3
ID05	C3
ID06	D4
ID07	C4
ID08	D4
ID09	D4
ID10	D4
ID11	E4
ID12	E5
ID13	E4
ID14	G9
ID15	E2
ID16	F3
ID17	B5
ID18	C6
ID19	D5
ID20	D1
ID21	D5
ID22	D5
ID23	E5
ID24	F3
ID26	F10
ID27	B2
ID28	E11
ID29	C2
ID30	E3
ID31	D9
ID33	E10
ID34	D11
ID35	C11
ID36	D11
ID37	C12
ID38	D12
ID39	D11
ID40	D12
ID41	E11
ID42	E12
ID43	E11
ID45	E10
ID46	F11
ID47	B12
ID48	C13
ID49	D12
ID50	D8
ID51	D12
ID52	D12
ID53	E12
ID60	D13
ID61	D6
IDB4	C5
IDB5	D12


SA4
AUDIO LEFT / RIGHT
SA4
VP1
5D05
80R
12V5
ID27
VP
2D20
100n
2D40
220n
GND-L
-12-15V
5D06
-12V5
ID29
VN
2D21
100n
SA4,SA5
MUTE
SA5
AUDIO-L
3D01
18K
ID20
2D00
47n
ID01
3D02
22K
2D01
1n0
GND-SA
7D00-1
LM393PT
3D04
3K3
3D05
22K
ID05
3D06
1K2
7D05
BC847BW
7D06
BC807-25W
7D07
BC847BW
7D08
BC857BW
7D09
BC817-25W
SI4532ADY
7D10-1
7D10-2
SI4532ADY
3D69
22K
ID17
2D06
1m0 16V
2D07
100n
GND-LL
2D02
10n
ID04
3D08
22K
ID09
3D07
680R
ID06
ID07
IDB4
ID19
3D15
330R
ID08
ID10
ID11
3D09
22K
ID03
3D10
1K2
3D46
22K
2D42
22p
ID12
ID15
3D11
3K9
2D03
1n5
2D04
1n5
ID24
2D15
100n
ID30
3D12
100K
ID13
2D05
1u0
ID16
3D13
10K
3D14
560R
7D12
BC857BW
ID18
3D16
22K
-12V4
CPROT
LEFT-SPEAKER
3D17
0R1
ID61
5D00
22u
FD24
FD00
FD01
1736
B3B-EH-A
TO SPEAKER
2D11
XD206
3D18
4R7
ID21
ID22
2D08
1n5
ID23
2D09
1n5
2D10
470n
2D12
100n
2D13
16V 1m0
5D01
80R
+12-15V
2D14
220n
5D02
80R
-12-15V
MUTE
-12V2
SA4,SA5
AUDIO-R
3D26
18K
ID50
2D25
47n
ID31
3D27
22K
2D26
1n0
7D00-2
LM393PT
3D29
3K3
3D30
22K
ID35
3D31
1K2
7D30
BC847BW
7D31
BC807-25W
7D32
BC847BW
7D33
BC857BW
7D34
BC817-25W
3D70
22K
SI4532ADY
7D35-1
7D35-2
SI4532ADY
ID37
IDB5
ID38
ID49
ID36
2D27
10n
ID34
3D33
22K
ID39
3D32
680R
3D40
330R
GND-LR
ID40
ID33
3D34
22K
ID41
3D35
1K2
3D48
22K
2D43
22p
ID42
ID45
3D36
3K9
ID28
3D37
100K
ID43
2D28
1n5
2D29
1n5
ID26
2D16
100n
2D30
1u0
ID46
3D38
10K
3D39
560R
ID47
2D31
1m0 16V
2D32
100n
7D37
BC857BW
ID48
3D41
22K
CPROT
RIGHT-SPEAKER
3D42
0R1
ID60
5D25
22u
FD54
FD26
FD25
1735
B3B-EH-A
TO SPEAKER
2D41
XD206
3D43
4R7
ID51
ID52
2D33
1n5
ID53
2D34
1n5
2D17
470n
2D37
100n
2D38
16V 1m0
5D26
80R
+12-15V
2D39
220n
5D27
80R
-12-15V
2D91
2p2
2D89
2p2
SA5
INV-MUTE
2D35
2p2
ID02
2D92
1p0
3D19
33K
ID14
2D90
2p2
3D20
15K
VN
3104 313 6093.5
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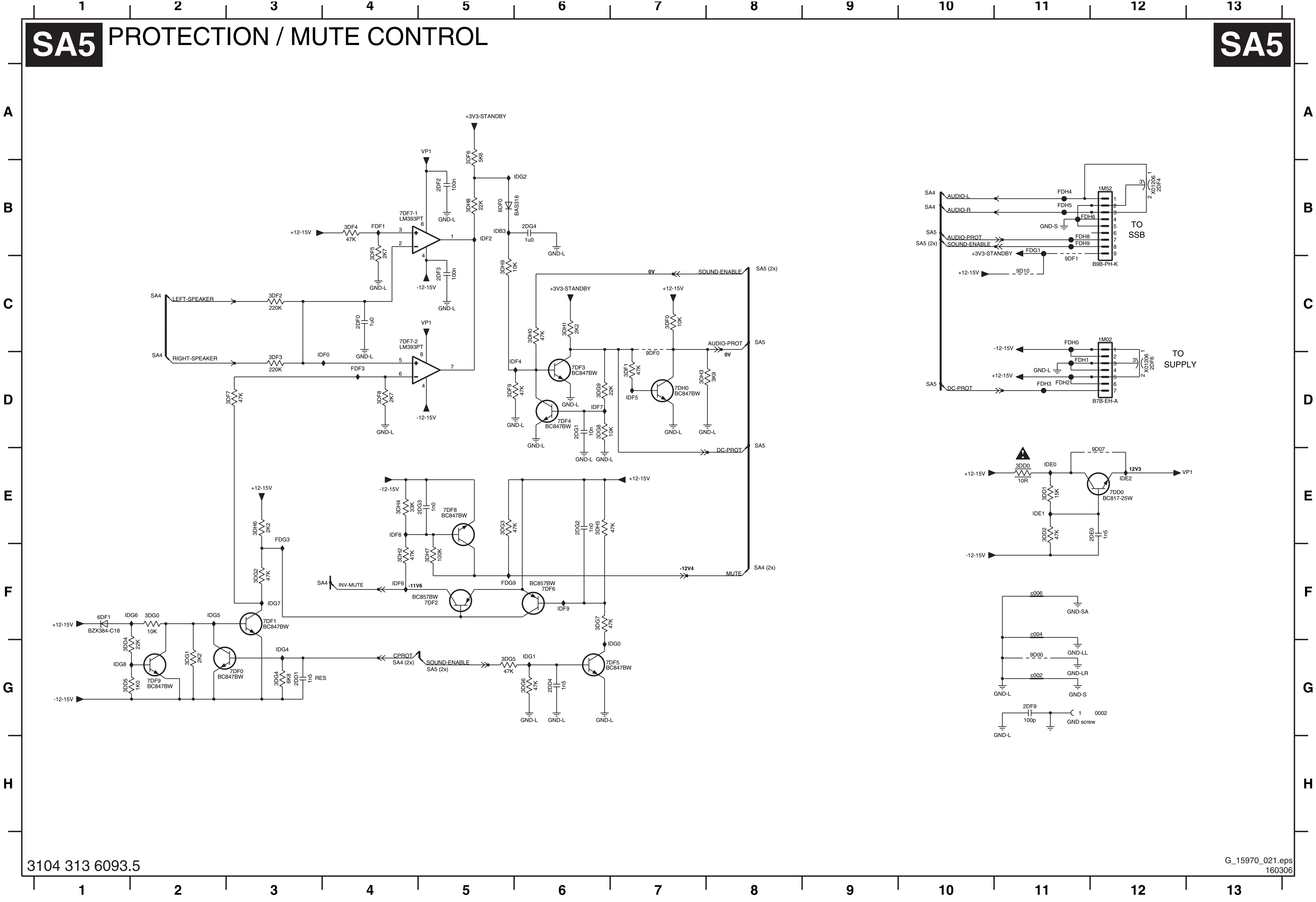
160306

Standby & Audio Panel: Prot. / Mute


SA5
PROTECTION / MUTE CONTROL
SA5
+3V3-STANDBY
3DF6 5K6
IDG2
VP1
2DF2 100n
GND-L
3DH8 22K
6DF0 BAS316
7DF7-1 LM393PT
+12-15V
3DF4 47K
FDF1
IDF2
IDB3
2DG4 1u0
GND-L
3DF5 2K7
2DF3 100n
-12-15V
3DH9 10K
0V
SOUND-ENABLE
SA5 (2x)
SA4
LEFT-SPEAKER
3DF2 220K
2DF0 1u0
+3V3-STANDBY
+12-15V
3DH1 2K2
3DF0 10K
7DF7-2 LM393PT
3DH0 47K
9DF0
AUDIO-PROT
SA5
SA4
RIGHT-SPEAKER
3DF3 220K
IDF0
FDF3
IDF4
7DF3 BC847BW
3DF1 47K
7DH0 BC847BW
3DH3 3K9
3DF7 47K
3DF8 2K7
3DF9 47K
3DG9 22K
IDF5
7DF4 BC847BW
IDF7
2DG1 10n
3DG8 10K
DC-PROT
SA5
-12-15V
+12-15V
3DH4 33K
2DG3 1n0
7DF8 BC847BW
3DG3 47K
2DG2 1n0
3DH5 47K
3DH6 2K2
FDG3
IDF8
3DH2 47K
3DH7 100K
-12V4
MUTE
SA4 (2x)
3DG2 47K
SA4
INV-MUTE
IDF6
-11V6
FDG9
BC857BW 7DF2
BC857BW 7DF6
IDF9
IDG7
+12-15V
6DF1 BZX384-C18
IDG6
3DG0 10K
IDG5
7DF1 BC847BW
3DG7 47K
IDG0
3DD4 22K
IDG8
7DF9 BC847BW
3DG1 2K2
7DF0 BC847BW
IDG4
3DG4 6K8
2DD1 1n5
RES
CPROT SA4 (2x)
SOUND-ENABLE SA5 (2x)
3DG5 47K
IDG1
3DG6 47K
2DD4 1n5
7DF5 BC847BW
3DD5 1K0
-12-15V
GND-L
SA4
AUDIO-L
FDH4
1M52
SA4
AUDIO-R
FDH5
FDH6
GND-S
SA5
SA5 (2x)
AUDIO-PROT
SOUND-ENABLE
+3V3-STANDBY
FDH8
FDH9
FDG1
9DF1
B9B-PH-K
2DF4
TO SSB
+12-15V
9D10
-12-15V
FDH0
1M02
FDH1
GND-L
+12-15V
FDH2
FDH3
SA5
DC-PROT
B7B-EH-A
2DF6
TO SUPPLY
9D07
+12-15V
3DD0 10R
IDE0
12V3
VP1
IDE2
7DD0 BC817-25W
3DD1 15K
IDE1
3DD2 47K
2DE0 1n5
-12-15V
c006
GND-SA
c004
GND-LL
9D00
GND-LR
c002
GND-L
GND-S
2DF9 100p
0002
GND screw
GND-L
3104 313 6093.5
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160306

0002	G12
1M02	C12
1M52	B12
2DD1	G3
2DD4	G6
2DE0	E12
2DF0	C4
2DF2	B5
2DF3	C5
2DF4	B12
2DF6	D12
2DF9	G11
2DG1	D6
2DG2	E6
2DG3	E5
2DG4	B6
3DD0	E11
3DD1	E11
3DD2	E11
3DD4	G1
3DD5	G1
3DF0	C7
3DF1	D7
3DF2	C3
3DF3	D3
3DF4	B4
3DF5	B4
3DF6	A5
3DF7	D3
3DF8	D4
3DF9	D5
3DG0	F2
3DG1	G2
3DG2	F3
3DG3	E5
3DG4	G3
3DG5	G5
3DG6	G6
3DG7	F6
3DG8	D6
3DG9	D6
3DH0	C6
3DH1	C6
3DH2	F4
3DH3	D7
3DH4	E4
3DH5	E6
3DH6	E3
3DH7	F5
3DH8	B5
3DH9	C5
6DF0	B5
6DF1	F1
7DD0	E12
7DF0	G3
7DF1	F3
7DF2	F5
7DF3	D6
7DF4	D6
7DF5	G6
7DF6	F6
7DF7-1	B4
7DF7-2	C4
7DF8	E5
7DF9	G2
7DH0	D7
9D00	G11
9D07	E12
9D10	C11
9DF0	C7
9DF1	C11
FDF1	B4
FDF3	D4
FDG1	B11
FDG3	E3
FDG9	F5
FDH0	C11
FDH1	D11
FDH2	D11
FDH3	D11
FDH4	B11
FDH5	B11
FDH6	B11
FDH8	B11
FDH9	B11
IDB3	B5
IDE0	E11
IDE1	E11
IDE2	E12
IDF0	D4
IDF2	B5
IDF4	D6
IDF5	D7
IDF6	F4
IDF7	D6
IDF8	E4
IDF9	F6
IDG0	G7
IDG1	G6
IDG2	B6
IDG4	G3
IDG5	F2
IDG6	F2
IDG7	F3
IDG8	G1
c002	G11
c004	F11
c006	F11

Layout Standby & Audio Panel (Top Side)

0001	A4
0002	G4
1301	B1
1305	A3
1306	A1
1310	A3
1311	C4
1318	A3
1735	G4
1736	E4
1J02	A4
1M02	G4
1M03	A4
1M08	G1
1M10	G2
1M46	A4
1M52	G3
1M63	C4
1M64	A3
1U01	D2
1U11	G2
2102	B1
2105	B1
2106	A2
2107	A1
2108	B1
2118	B3
2132	B4
2140	D4
2152	C2
2160	B4
2163	B2
2506	C2
2507	D3
2508	D3
2510	C4
2511	B4
2522	C3
2533	D4
2D06	D4
2D13	D4
2D31	G4
2D38	G4
2U02	E2
2U06	E2
2U07	D2
2U08	D2
2U09	D1
2U14	G2
2U15	E1
2U22	E2
3104	B1
3108	B2
3109	B2
3139	A3
3D04	E4
3D15	E3
3D29	F3
3D40	F4
3U07	E1
3U08	E2
3U09	E2
3U22	E2
3U32	E1
3U33	E1
5103	C4
5104	C2
5106	B2
5108	B2
5110	C3
5112	C3
5115	B3
5500	C3
5504	A1
5505	D1
5506	C4
5507	A4
5508	A1
5D00	E4
5D01	E3
5D02	E3
5D05	F3
5D06	F3
5D25	F4
5D26	F3
5D27	G3
5U00	F1
5U03	E1
5U05	D2
5U06	E1
5U10	F2
5U17	G1
6103	B2
6107	C4
6113	B3
6125	B4
6140	C3
6504	D3
6505	C4
6U07	G1
6U22	E2
7102	C1
7131	B4
7501	B2
7U01	F1
7U02	E1
7U04	F1
9030	B4
9031	A4
9032	A4
9033	A4
9034	A4
9035	B4
9036	A4
9037	A4
9038	A4
9039	A4
9040	B1
9050	A3
9051	B4
9052	A3
9053	B1
9054	A1
9055	C1
9057	B4
9059	B4
9060	A4
9061	A4
9063	A4
9064	A4
9065	A4
9066	A4
9067	C4
9068	A3
9069	A4
9070	C4
9071	A3
9072	C4
9073	B4
9074	B4
9075	B4
9077	B4
9081	A3
9082	A3
9083	C4
9D00	G4
9D01	D3
9D02	D3
9D09	F3
9D11	D3
9D12	F4
9D16	F3
9D17	E4
9D18	E4
9D23	F4
9D24	F3
9D26	F3
9D27	G3
9D28	G3
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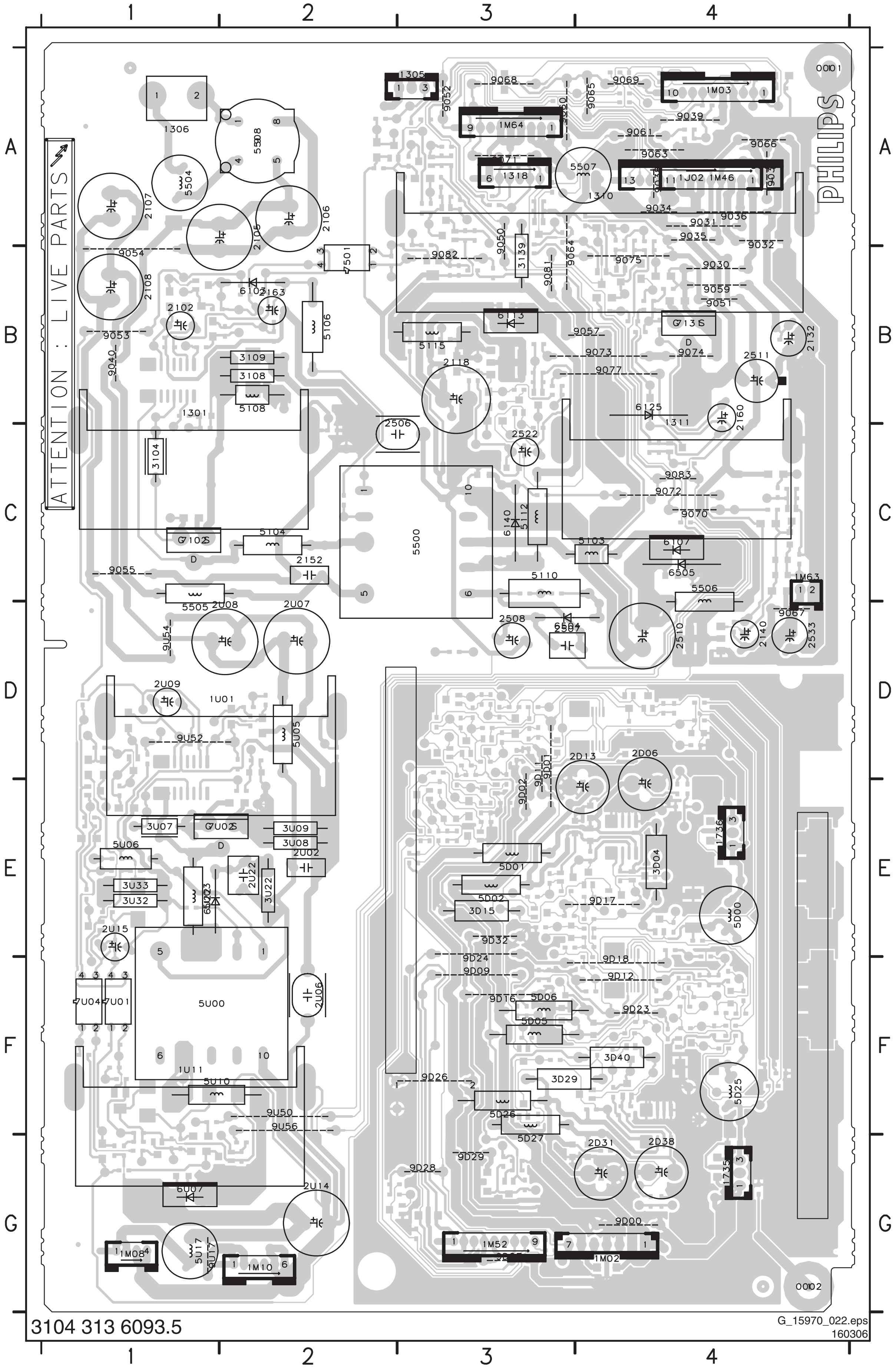
9U56	G2



Layout Standby & Audio Panel (Overview Bottom Side)

2103	B4
2109	A2
2129	C2
2131	B1
2141	C2
2143	B2
2145	B4
2154	C1
2503	C1
2509	A2
2513	C1
2518	C2
2523	B2
2534	C1
2535	A1
2536	A2
2537	A2
2538	A1
2539	C1
2540	A2
2541	C1
2544	A2
2D00	F2
2D01	F2
2D02	E1
2D03	F1
2D04	F1
2D05	E2
2D07	E1
2D08	E1
2D09	E1
2D10	E1
2D11	E1
2D12	E1
2D14	E1
2D15	F1
2D16	F1
2D17	G1
2D20	F2
2D21	F2
2D25	E1
2D26	F1
2D27	F1
2D28	F1
2D29	F1
2D30	F1
2D32	G2
2D33	G1
2D34	G1
2D35	F1
2D37	G1
2D39	F1
2D40	F1
2D41	G1
2D42	E1
2D43	F1
2D89	E1
2D90	F1
2D91	F1
2D92	F1
2DD1	D1
2DD4	E2
2DE0	G2
2DF0	D1
2DF2	D1
2DF3	D2
2DF4	G2
2DF6	G1
2DF9	G1
2DG1	E2
2DG2	D2
2DG3	D2
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2U10	D4
2U11	D3
2U13	F4
2U37	F3
2U38	F4
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3114	B3
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3125	B4
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3132	B1
3134	A1
3135	B1
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3140	B1
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3148	B3
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3153	B1
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3171	B1
3172	A1
3175	C2
3176	C1
3502	B1
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3D35	F1
3D36	F1
3D37	F1
3D38	F1
3D39	F1
3D41	F1
3D42	F1
3D43	G1
3D46	E1
3D48	F1
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3D70	F1
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3DD2	G2
3DD4	D2
3DD5	D2
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3DF1	G3
3DF2	D1
3DF3	D1
3DF4	D2
3DF5	D2
3DF6	D2
3DF7	D1
3DF8	D1
3DF9	E2
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3DG7	E2
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3U03	D3
3U04	D4
3U05	E3
3U06	D3
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3U14	F4
3U15	G4
3U16	F4
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3U21	F4
3U23	D3
3U25	E4
3U26	E4
3U27	E4
3U28	E4
3U29	G4
3U31	G4
3U35	G3
3U36	G3
3U37	G4
3U38	F4
3U43	G4
5105	C3
5107	C3
5U07	D3
5U08	E4
6101	A4
6102	B4
6105	C4
6109	B2
6110	C2
6115	B4
6130	B1
6132	B1
6133	B1
6134	B1
6144	B3
6147	B3
6148	C1
6149	C1
6503	B1
6510	A1
6513	B2
6514	B2
6531	C1
6532	A1
6534	A2
6535	A1
6540	A2
6562	A3
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6U03	E4
6U04	D3
6U05	E3
6U08	F4
6U09	G4
6U11	D3
6U15	E4
6U25	D4
6U26	D4
6U32	G4
7100	B4
7101	B4
7140	C1
7503	C1
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7506	B1
7507	A2
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7511	B2
7512	B2
7513	B2
7514	B2
7531	D1
7532	B1
7534	A1
7560	A3
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7D05	E2
7D06	E1
7D07	E1
7D08	E1
7D09	E2
7D10	E1
7D12	E1
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7D31	F2
7D32	F1
7D33	F1
7D34	F1
7D35	F1
7D37	F1
7DD0	G2
7DF0	D1
7DF1	D1
7DF2	D2
7DF3	E2
7DF4	E2
7DF5	E2
7DF6	D2
7DF7	D1
7DF8	D2
7DF9	D2
7DH0	G3
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7U05	F4
7U07	G4
7U08	G3
7U10	E4
7U15	D4
7U16	E4
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9003	A2
9008	A2
9009	A2
9048	A2
9049	B2
9058	A2
9076	A2
9078	A1
9079	A1
9080	C1
9123	A1
9124	A1
9D06	D2
9D07	G2
9D10	E2
9D13	F1
9D14	F1
9D15	F1
9D19	F1
9D20	E2
9D21	D2
9D25	F1
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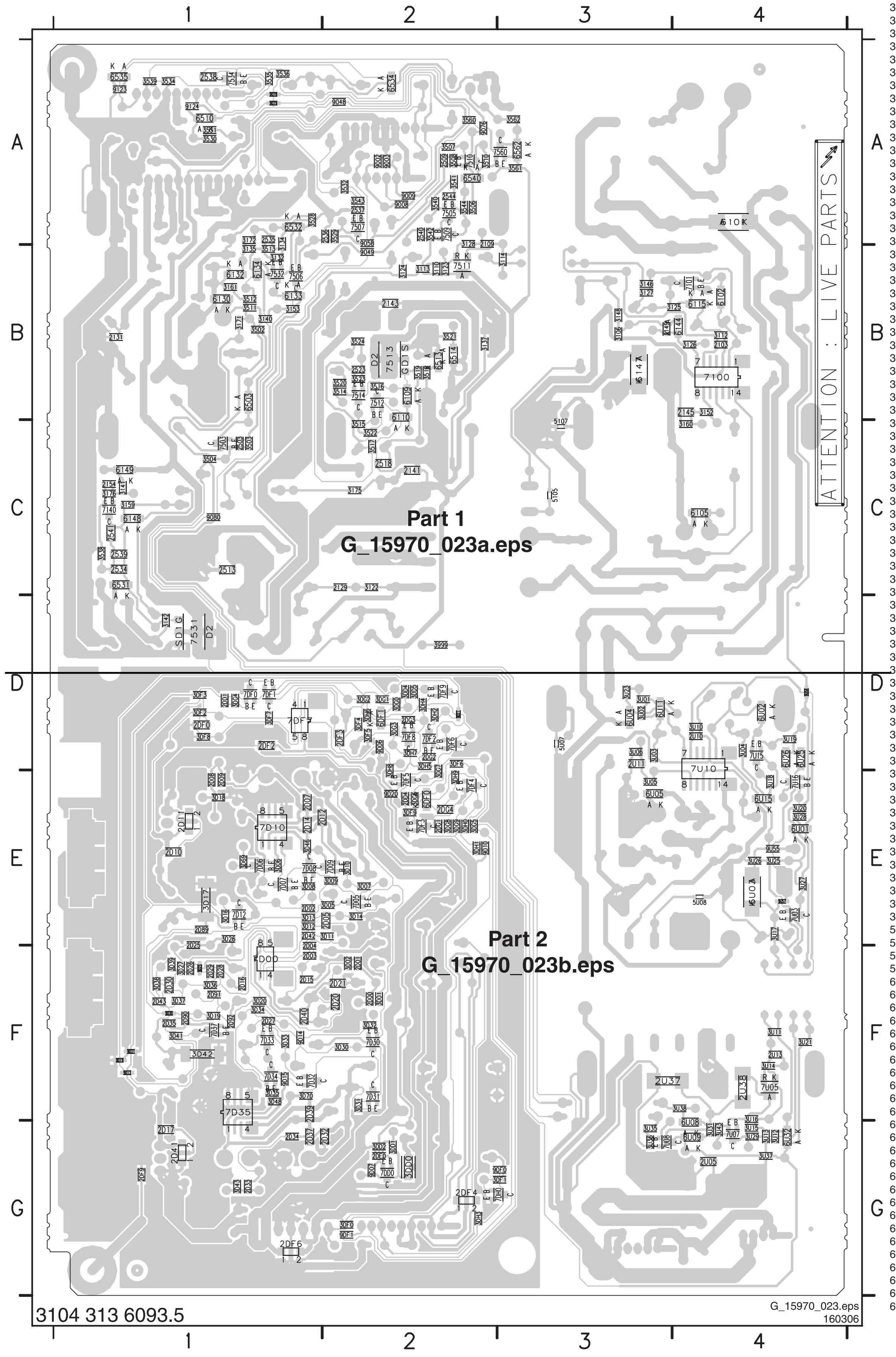
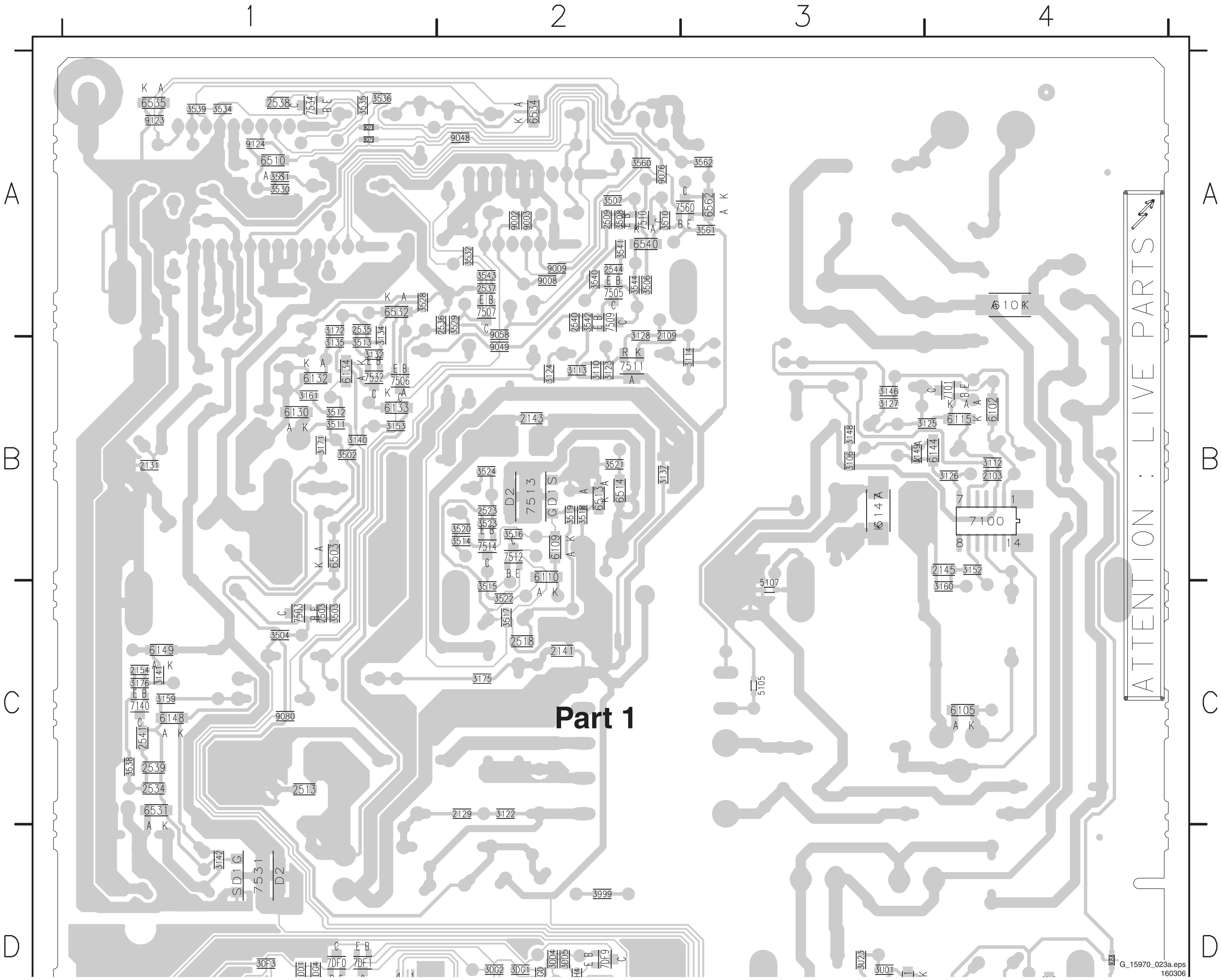


Layout Standby & Audio Panel (Part 1 Bottom Side)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B
C
D
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3536
6534
9124
9048
6510
3531
3530
3560
3562
7560
6562
3507
7510
6540
3561
9002
9003
3532
9009
9008
3543
2537
7507
3540
2544
7505
3544
3506
6532
3528
2536
3529
9058
9049
2540
3542
7509
3128
2109
3114
3172
3135
2535
3513
3134
6134
6132
7532
7506
3124
3113
3110
3123
7511
3161
6133
6130
3512
3511
3153
2143
3171
3140
3502
2131
3524
7513
3521
6514
6513
3519
3518
3137
2523
3523
3520
3514
7514
3516
7512
6109
6110
6503
3515
3522
3517
7503
2503
3503
3504
2518
2141
6149
2154
3176
3141
7140
3159
6148
9080
3175
2541
3538
2539
2534
2513
6531
2129
3122
3142
7531
3999
3146
3127
7101
6102
6115
3125
3148
3106
3149
6144
3112
2103
3126
6147
7100
2145
3152
3160
5107
5105
6105
6101
3DF3
7DF0
7DF1
3DG2
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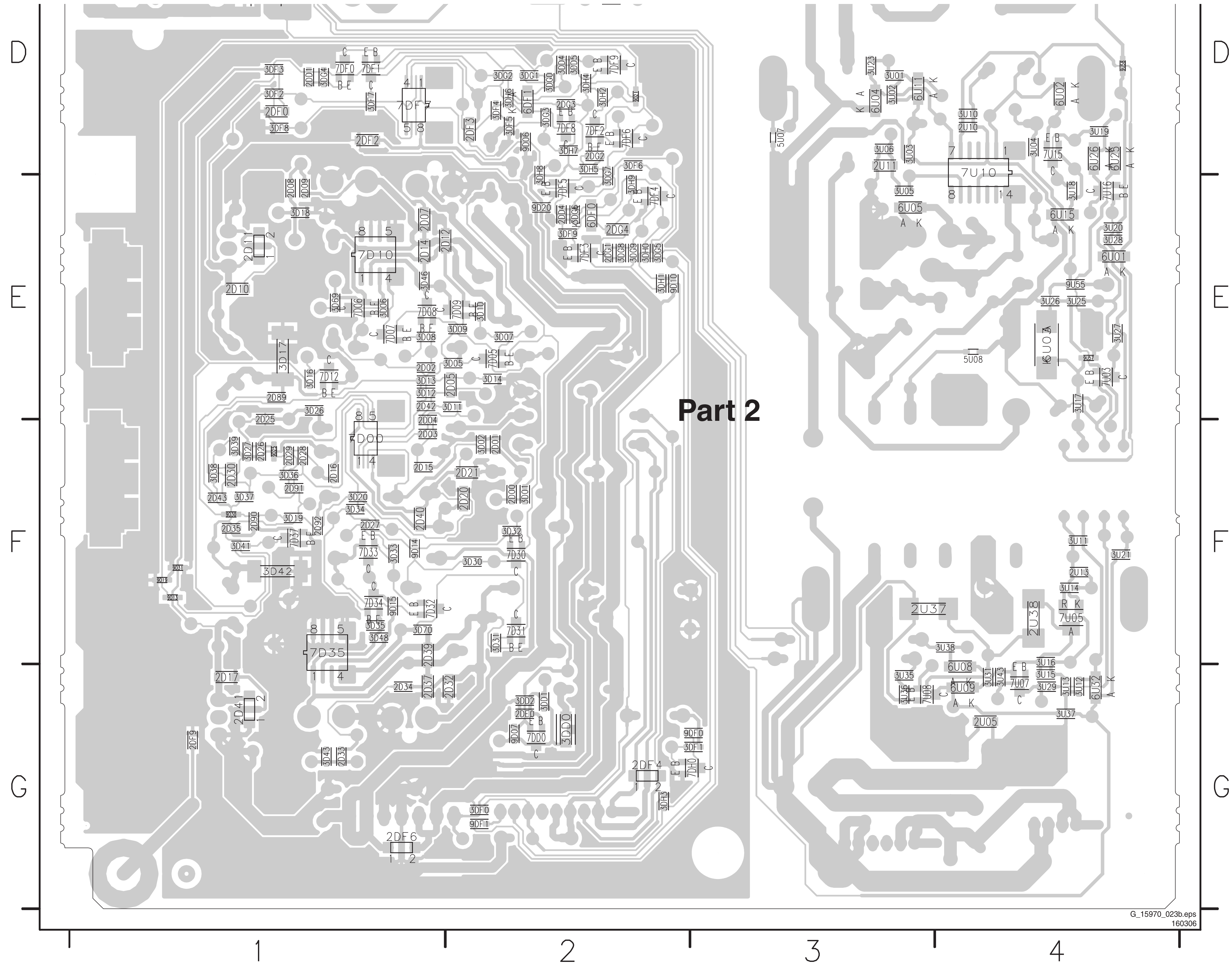
3U23
3U01
G_15970_023a.eps
160306

Layout Standby & Audio Panel (Part 2 Bottom Side)


D
E
F
G
1
2
3
4
Part 2
3DF3
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2DD1
3DG4
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7DF1
3DF7
7DF7
2DF2
2DF3
3DG2
3DG1
3DD4
3DD5
7DF9
6DF1
3DH4
3DH2
3DF4
3DH6
3DF5
9DD6
3DD0
2DG3
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7DF8
7DF2
3DH7
6DF6
2DG2
3DH5
3DF6
3DH8
7DF5
3DG7
3DH9
7DF4
9D20
2DD4
3DD6
6DF0
2DG4
3DF9
7DF3
2DG1
3DD8
3DG9
3DH0
3DG5
3DH1
9D10
2D08
2D09
3D18
2D11
2D10
7D10
2D07
2D14
2D12
3D46
3D69
7D06
3D06
7D08
7D09
3D10
7D07
3D08
3D09
3D07
3D17
3D16
7D12
2D02
3D05
7D05
3D13
2D05
3D14
3D12
2D89
2D42
3D11
2D25
3D26
2D04
7D00
2D03
3D39
3D27
2D26
2D29
2D28
3D02
2D01
3D38
2D30
3D36
2D16
2D15
2D21
2D91
2D00
3D01
2D43
3D37
3D20
2D20
3D34
3D19
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2D27
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7D33
3D33
9D14
7D30
3D41
3D30
3D42
7D34
9D15
7D32
3D35
7D31
3D48
3D70
7D35
3D31
2D39
2D17
2D34
2D37
2D32
2D41
3DD2
3DD1
2DE0
3DD0
9D07
7DD0
2DF9
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2D33
9DF0
3DF1
2DF4
7DH0
3DH3
3DF0
9DF1
2DF6
5U07
3U23
3U01
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6U02
3U10
2U10
3U06
3U03
7U10
3U04
7U15
3U19
6U26
6U25
2U11
3U05
6U05
3U18
7U16
6U15
3U20
3U28
6U01
9U55
3U26
3U25
6U07
5U08
3U27
7U03
3U17
3U11
3U21
2U13
3U14
7U05
2U37
2U38
3U38
6U08
3U35
3U36
7U08
6U09
3U31
3U43
7U07
3U16
3U15
3U29
3U13
3U12
6U32
2U05
3U37
A
K
C
E
B
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131004

8. Alignments

Index of this chapter:

8.1 General Alignment Conditions
8.2 Hardware Alignments
8.3 Software Alignments
8.4 Option Settings

Note: The Service Default Mode (SDM) and Service Alignment Mode (SAM) are described in chapter 5. Menu navigation is done with the CURSOR UP, DOWN, LEFT or RIGHT keys of the remote control transmitter.

8.1 General Alignment Conditions

Perform all electrical adjustments under the following conditions:

- Power supply voltage (depends on region):
  - AP-NTSC: 120 V_{AC} or 230 V_{AC} / 50 Hz (± 10%).
  - AP-PAL-multi: 120 - 230 V_{AC} / 50 Hz (± 10%).
  - EU: 230 V_{AC} / 50 Hz (± 10%).
  - LATAM-NTSC: 120 - 230 V_{AC} / 50 Hz (± 10%).
  - US: 120 V_{AC} / 60 Hz (± 10%).
- Connect the set to the mains via an isolation transformer with low internal resistance.
- Allow the set to warm up for approximately 15 minutes.
- Measure voltages and waveforms in relation to correct ground (e.g. measure audio signals in relation to AUDIO_GND).
  Caution: It is not allowed to use heatsinks as ground.
- Test probe: Ri > 10 Mohm, Ci < 20 pF.
- Use an isolated trimmer/screwdriver to perform alignments.

8.1.1 Initial Settings

Press the “Menu” button on the RC. Select “TV menu”, “TV settings” and then “Picture”. Change the following initial setting in order to perform all electrical adjustments:

1. Set “Active Control” to “Off”.
2. Set “Light sensor” to “Off”.

8.1.2 Alignment Sequence

- First, set the correct options:
  - In SAM, select “Options”, and then “Option numbers”.
  - Fill in the option settings for “Group 1” and “Group 2” according to the set sticker (see also paragraph "Option Settings").
  - Press OK on the remote control **before** the cursor is moved to the left.
  - In submenu “Option numbers” select “Store” and press OK on the RC.
    OR:
  - In main menu, select “Store” again and press OK on the RC.
  - Switch the set to Standby.
- Warming up (>15 minutes).
- White-D alignment.

8.2 Hardware Alignments

Not applicable.

8.3 Software Alignments

Put the set in SAM mode (see Chapter 5 "Service Modes, Error Codes and Fault Finding"). The SAM menu will now appear on the screen. Select ALIGNMENTS and go to one of the sub menus. The alignments are explained below.

Notes:

- All changes must be stored manually.
- **Initialise NVM.** When an NVM was corrupted (or replaced) in the former EMG based chassis, the microprocessor replaces the content with default data (to assure that the set can operate). However, all preferences and alignment values are gone now, and option numbers are not correct. Therefore, this was a very drastic way. In this chassis, the procedure is implemented in another way: The moment the processor recognizes a corrupted NVM, the “initialize NVM” line will be highlighted. Now, you can do two things (depending of the service instructions at that moment):
  - Save the content of the NVM via ComPair for development analysis, **before** initializing. This will give the Service department an extra possibility for diagnosis (e.g. when Development asks for this).
  - Initialize the NVM (same as in the past, however now it happens conscious).

With the software alignments of the Service Alignment Mode (SAM), “Tuner AGC”, “Tuner IF PLL Offset” and the “Whitepoint” settings can be aligned.

To store the data:

- Press OK on the RC **before** the cursor is moved to the left.
- In main menu select “Store” and press OK on the RC.
- Press MENU on the RC to switch back to the main menu.
- Switch the set to Standby mode.

For the next alignments, supply the following test signals via a video generator to the RF input:

- **EU/AP-PAL** models: a PAL B/G TV-signal with a signal strength of at least 1 mV and a frequency of 475.25 MHz
- **US/AP-NTSC** models: an NTSC M/N TV-signal with a signal strength of at least 1 mV and a frequency of 61.25 MHz (channel 3).
- **LATAM** models: an NTSC M TV-signal with a signal strength of at least 1 mV and a frequency of 61.25 MHz (channel 3).
- **DVB-T** models: see table “SDM default settings” in chapter 5.

8.3.1 Adjacent channel sound trap (40.4 MHz)

Purpose: to avoid sound of adjacent channel in picture.

This alignment can only be executed in sets equipped with the hybrid TD1316AF tuner (use RF sweep generator, spectrum analyser and active probe):

- Apply sweep generator to antenna. Tune to any frequency, e.g. 154.25 MHz. Sweep from appr. 151.25 MHz to 154.25 MHz. Level must be low (e.g. 45 dBμV) in order to avoid AGC effect.
- Sweep from appr. 151.25 MHz to 154.25 MHz. Level must be low (e.g. 45 dBμV) in order to avoid AGC effect.
- Connect active probe of spectrum analyser to test point AC05.
- Turn the core of coil 5C70 until notch frequency is at 40.75 MHz.

8.3.2 Tuner AGC

Purpose: To keep the tuner output signal constant as the input signal amplitude varies.

This chassis comes with two tuner types: the UV1318S for the analogue sets and the TD1316AF for the hybrid sets. For further details refer to chapter 9 “Circuit descriptions, Abbreviation List, and Data Sheets”. For the digital tuner TD1316AF, no AGC alignment is necessary, as the AGC alignment is done automatically (standard value: “32”), even during analogue reception. The analogue tuner UV1318S however needs to be aligned as follows (use spectrum analyser and RF generator):

- Warm up set for a short period.
- Tune set to 203.25 MHz.
- Apply unmodulated carrier of 203.25 MHz (70 dBμV) to antenna input.
- Measure IF-output of the tuner (pin 11) with active probe and spectrum analyser.
- Adjust AGC (via SAM menu), until measured level is less or equal to 103 dBμV (6-bit register, typical value is 42 dec).
- Store settings and quit SAM.

8.3.3 IF PLL Offset

The IF PLL Offset value needs to be realigned in case the MPIF and/or the NVM have been replaced. This is not necessary in case only the tuner has been replaced. Default values are:

- For PAL B/G: 40
- For SECAM L: 32

In case the result is not satisfying (distortion in sound and/or discolouration in left and right part of the picture), use the following method to align the IF PLL Offset value:

- Switch set “off”.
- Disconnect speakers and connect a resistor of 1 kΩ instead.
- Connect AC voltmeter at resistor.
- Switch set on.
- Put “Volume” at maximum.
- Align PLL until voltage is at minimum.

In case the minimum value on the AC voltmeter is found in a range of IF PLL Offset values, the value should be taken that is in the middle of this range.

8.3.4 White Point

- Set “Active control” to “Off” as earlier described.
- Choose “TV menu”, “TV Settings” and then “Picture” and put:
  - “Dynamic contrast” to “Off”.
  - “Colour enhancement” to “Off”.
  - “Light sensor” to “Off”.
  - “Clear LCD” to “On” where applicable.
  - “Colour” to "0".
  - “Contrast” to "100".
- Go to the SAM and select “Alignments”-> “Whitepoint”.

White point alignment:

- Use a 100% white screen as input signal and set the following values:
  - “Colour temperature”: "Normal".
  - All “Whitepoint” values to: "127".
  - “Red BL offset” and “Green BL offset” values to “8”.

In case you have a colour analyser:

- Measure with a calibrated (phosphor- independent) colour analyser in the centre of the screen. Consequently, the measurement needs to be done in a dark environment.
- Adjust the correct x,y coordinates (while holding one of the White point registers R, G or B on 127) by means of decreasing the value of one or two other white points to the correct x,y coordinates (see table "White D alignment values"). Tolerance: dx: ± 0.004, dy: ± 0.004.
- Repeat this step for the other colour Temperatures that need to be aligned.
- When finished press OK on the RC and then press STORE (in the SAM root menu) to store the aligned values to the NVM.
- Restore the initial picture settings after the alignments.

If you do not have a colour analyser, you can use the default values. This is the next best solution. The default values are average values coming from production (statistics).

- Select a COLOUR TEMPERATURE (e.g. COOL, NORMAL, or WARM).
- Set the RED, GREEN and BLUE default values according to the values in the "Tint settings" table.
- When finished press OK on the RC, then press STORE (in the SAM root menu) to store the aligned values to the NVM.
- Restore the initial picture settings after the alignments.

Table 8-1 Tint settings

Colour Temp.	R	G	B
Cool	122	120	121
Normal	125	118	108
Warm	127	110	75

8.4 Option Settings

8.4.1 Introduction

The microprocessor communicates with a large number of I^{2}C ICs in the set. To ensure good communication and to make digital diagnosis possible, the microprocessor has to know which ICs to address. The presence / absence of these specific ICs (or functions) is made known by the option codes.

Notes:

- After changing the option(s), save them by pressing the OK button on the RC **before** the cursor is moved to the left, select STORE in the SAM root menu and press OK on the RC.
- The new option setting is only active after the TV is switched "off" / “standby” and "on" again with the Mains switch (the NVM is then read again).

8.4.2 Dealer Options

For dealer options, in SAM select “Dealer options” and then “Personal options”.

Table 8-2 Dealer options

Menu item	Subjects	Options	Description
Personal Options	Virgin Mode	On	TV starts up (once) with a language selection menu after the Mains switch is turned "on" for the first time (virgin mode)
		Off	TV does not start up (once) with a language selection menu after the Mains switch is turned "on" for the first time (virgin mode)
	Autostore Mode	None	Determines where the set distracts the information from for the autostore functionality
		PDC/VPS	
		TXT page	
		PDC/VPS/TXT	

8.4.3 (Service) Options

Select the sub menu's to set the initialization codes (options) of the set via text menus.

Table 8-3 Service options

Menu-item	Subjects	Options	Description
PIP/DS	Dual Screen	None	no DS
		One tuner dual screen	one tuner DS
		Two tuner dual screen	two tuner DS
Data	EPG	-	Electronic Program Guide
Display	Screen	“Value”	Used screen size, type, and resolution (see figure “Display option code overview” in chapter 5)
	Clear LCD	On / Off	Feature present / not present
	Dimming Backlight	On / Off	Feature present / not present
Video Repro	Picture Processing	Spider	Feature present
	Combfilter	None / 2D / 3D	
	Ambient Light	Off / Mono / Stereo/Triple / Quad	Inverter not present / one inverter / two inverters / three inverters / four inverters
	Pacific 3	On	Feature present
	MOP	Off / On	Feature present / not present
	Light sensor	Off / On	Sensor active / not active
Source Selection	EXT1 type	CVBS RGB	
	EXT2 type	CVBS Y/C RGB P50	
	EXT3 type	YPbPr	
	EXT4 type	None	
	HDMI 1	None	No HDMI
		With analogue audio	DVI
		Without analogue audio	HDMI
	HDMI 2	None	No HDMI
		With analogue audio	DVI
		Without analogue audio	HDMI
	USB version	2.0 + CR	USB 2.0 in cardreader panel
	Ethernet	Off / On	Connector not present / present
	VGA	On	
	S/PDIF inputs	1 connector	1 connector present (in)

Menu-item	Subjects	Options	Description
Audio Repro	Acoustic System (Cabinet design, used for setting dynamic audio parameters)	None	
		Entry ME5 5W	
		Entry ME5 15W	
		(Soft) Wrap	
		Top	
		Entry+	
		Eco ME5 5W	
		Eco ME5 15W	
		Eco ME6	
		Top-A 2K6	
		ME5P 2K6	
		Step Top-B EUR AP 2K6 32	
		Step Top-B EUR AP 2K6 37+	
		Step Top-B Open 2K6	
		MEG 2K6	
		51 WMAG	
		51 PHIL	
		60 PHIL	
		MEG ECO Slim	
		Others	
		DLP 50” PHIL/MAG	
		DLP 60” PHIL	
		ME6 Step 2k6 (duplicated from ME6 2k6	
		Cos	
		Top-A_BBE_2k6	
		TopBStep32Box_BBE_2k6	
		TopBStep37PlusBox_BBE_2k6	
		ME6_BBE_2k6	
	Centre mode support	Off	Feature present / not present
	Inverted Class D amplifier	Yes / No	Right audio channel (coming from the PNX2105) inverted / not inverted. Only inverted (‘Yes’) in sets who use the 2k6 audio panel.
Miscellaneous	Region	Europe / AP-PAL-MULTI	
	ATSC / DVB-T	On / Off	
	DVB-T installation	Off / Country dependent / On	
	Alternative tuner	Philips	Tuner brand
	Tuner type	UV1318 / TD 1316	Tuner type
	AGC amplifier	Other / Sanyo	
	Hotel mode	Off	
	Video playback	On	
	Connected planet	On / Off	
Opt. no.	Group 1		xxxxx xxxxx xxxxx xxxxx (see set sticker)
	Group 2		xxxxx xxxxx xxxxx xxxxx (see set sticker)
	Store	Store	

8.4.4 Opt. No. (Option numbers)

Select this sub menu to set all options at once (expressed in two long strings of numbers).
An option number (or "option byte") represents a number of different options. When you change these numbers directly, you can set all options very quickly. All options are controlled via eight option numbers.
When the NVM is replaced, all options will require resetting. To be certain that the factory settings are reproduced exactly, you must set both option number lines. You can find the correct option numbers on a sticker inside the TV set.

Example: The options sticker gives the following option numbers:

- 04368 00005 01066 08707
- 00000 00032 00512 00000

The first line (group 1) indicates hardware options 1 to 4, the second line (group 2) indicates software options 5 to 8.
Every 5-digit number represents 16 bits (so the maximum value will be 65536 if all options are set).
When all the correct options are set, the sum of the decimal values of each Option Byte (OB) will give the option number.
See next table for the option overview.

Important: after having edited the option numbers as described above, you **must** press OK on the remote control **before** the cursor is moved to the left!

Table 8-4 Option code overview

Byte	Bit (dec. value)	Subject	Options	Settings (in decimal values)	Remarks
1	0 (1)	Video Repro	Picture Processing	0= No Spider, 1= Spider	Spider availability, influences, digital options.
	1 (2)				
	2 (4)				
	3 (8)		Comb Filter	0= None, 8= 2D Comb (Columbus without DRAM), 16= 3D Comb (Columbus with DRAM)	
	4 (16)				
	5 (32)		Ambient Light	0= None, 32=Ambi-light Mono, 64= Ambi-light Stereo, 96 = Ambi-light Triple, 128 = Ambi-light Quad	
	6 (64)				
	7 (128)				
	8 (256)		Dual Screen	0= None, 256= One Tuner DS, 512= Two Tuner DS	
	9 (512)				
	10 (1024)		MOP	0= Off, 1024= On	Matrix Output Processor.
	11 (2048)		JOP	0= Off, 2048= On	Jaguar Output Processor.
	12 (4096)		POD	0= Off, 4096= On	
	13 (8192)	n.a.			
	14 (16384)				
	15 (32768)				
2	0 (1)	Cabinet Type	Cabinet Type	0= None, 1= Entry_ ME5_5W, 2= Entry_ME5_15W, 3= (Soft)Wrap, 4= Top, 5= Entry+, 6= ME5_5W Eco, 7= ME5 15W Eco, 8= ME6 Eco, 9= TopA 2K6, 10= ME5P 2K6, 11= TopBStep32Box 2K6, 12= TopBStep37PlusBox 2K6, 13= TopBStepOpen 2K6, 14= ME6 2K6, 15= 51WMAG, 16= 51PHIL, 17= 60PHIL, 18 = MEG ECO Slim, 19= Others, 20= DLP 50” PHIL/MAG, 21= DLP 60” PHIL, 22= ME6 step 2K6 (not used, duplicate with ME6 2K6 option no. 14), 23= Cos, 25= TopA_BBE_2K6, 27= TopBStep32Box_BBE_2K6, 28= TopBStep37PlusBox_BBE_2K6, 30= ME6_BBE_2K6	Cabinet design, used for setting dynamic audio parameters.
	1 (2)				
	2 (4)				
	3 (8)				
	4 (16)				
	5 (32)	n.a.			
	6 (64)				
	7 (128)				
	8 (256)	Sound Repro	Inverted Class D	0= Not Inverted, 256= Inverted	
	9 (512)		Subwoofer Internal	0= Off, 512= On	
	10 (1024)	Centre Mode Support	Centre Mode Support	0= Not Supported, 1024= Supported	
	11 (2048)	n.a.			
	12 (4096)				
	13 (8192)				
	14 (16384)				
	15 (32768)				
3	0 (1)	Source Select	HDMI1	0= None (no HDMI), 1= With analog audio (DVI), 2= Without analog audio (HDMI)	read-only
	1 (2)				
	2 (4)		HDMI2	0= None (no HDMI), 4= With analog audio (DVI), 8= Without analog audio (HDMI)	read-only
	3 (8)				
	4 (16)		Video Playback	0= Off, 16= On	
	5 (32)		USB Version	0= None, 32= USB 1.1, 64= USB 2.0 + Card reader	USB support.
	6 (64)				
	7 (128)		IEEE1394	0= Not Present, 128= Present	
	8 (256)		Ethernet	0= LAN not present, 256= LAN present	
	9 (512)		RRT	0= Off, 512= On	Regional Rating Table (RRT)
	10 (1024)		S/PDIF Inputs	0= None, 1024= 1 Connector, 2048= 2 Connectors	
	11 (2048)				
	12 (4096)		VGA	0= Off, 1= On	
	13 (8192)		n.a.		
	14 (16384)				
	15 (32768)				
4	0 (1)	Region	Region	0= EU, 1= AP-P, 2= AP-N, 3= US, 4= Latam	
	1 (2)				
	2 (4)				
	3 (8)	Interconnect	China IF	0= Off, 8= On	
	4 (16)		Alternative Tuner	0= Philips, 16= Alps	Tuner make.
	5 (32)		Tuner Type	0= TD1336s (B-Chassis US), 32= TD1331(J-Chassis US), 64= UV1318 (Analogue EU), 96= TD1316 (Hybrid EU)	Tuner type (B-chassis US is e.g "BP2.3U").
	6 (64)				
	7 (128)	Amplifier Type	Amplifier Type	0=NEC, 128=Sanyo	15 (32768)
	8 (256)	Source Select	AV1	0= CVBS/RGB, 256= CVBS/YC/YPbPr/HV/LR, 512= CVBS/YC/LR, 768= CVBS/YPbPr/LR	Input type.
	9 (512)				
	10 (1024)		AV2	0= CVBS/YC/RGB/P50, 1024= CVBS/YC/LR, 2048= CVBS/YPbPr/LR, 3072= CVBS/YC/YPbPr/LR	Input type.
	11 (2048)				
	12 (4096)		n.a.		
	13 (8192)		n.a.		
	14 (16384)		AV4	0= Not Available, 16384= YPbPr, 32768= YPbPr/LR	Input type.
	15 (32768)				

Byte	Bit (dec. value)	Subject	Options	Settings (in decimal values)	Remarks
5	0 (1)	Display	Screen	see Table “Display code overview” in Chapter “Service Modes” for the values	Screen size, type, and resolution.
	1 (2)				
	2 (4)				
	3 (8)				
	4 (16)				
	5 (32)				
	6 (64)				
	7 (128)				
	8 (256)		Light sensor	0= Off, 256= On	
	9 (512)		Contrast Reduction	0= Off, 512= On	
	10 (1024)		Dimming Backlight	0= Off, 1024= On	
	11 (2048)		Clear LCD	0= Off, 2048= On	
	12 (4096)	AV3Union	Europe & AP	0= CVBS, 4096= YPbPr, 8192= YPbPr/LR, 12288= YPbPr/LR/HV	
	13 (8192)				
	14 (16384)		US	0= YPbPr, 16384= CVBS/YC/LR	
	15 (32768)	Logo	Logo	0= Off, 32768= On (default)	
6	0 (1)	Miscellaneous	n.a.		
	1 (2)		n.a.		
	2 (4)		n.a.		
	3 (8)		n.a.		
	4 (16)		n.a.		
	5 (32)		n.a.		
	6 (64)		Proximity Sensor	0= Off, 64= On	
	7 (128)		n.a.		
	8 (256)		DVB-T installation	0= Off, 256= Country dependent, 512= On	
	9 (512)				
	10 (1024)		n.a.		
	11 (2048)		n.a.		
	12 (4096)		n.a.		
	13 (8192)		n.a.		
	14 (16384)		n.a.		
	15 (32768)		n.a.		
7	0 (1)	Personal	Self Learning TV	0= Off, 1= On	
	1 (2)		Auto Store Mode	0= None, 2= PDC/VPS, 4= TXT Page, 6= PDC/VPS/TXT Page	Fixed to: "None" in the AP-N and US versions.
	2 (4)				
	3 (8)		2CS Korea	0= Off, 8= On, 16= Auto	
	4 (16)				
	5 (32)		Picture Mute	0= Off, 32= On	
	6 (64)		n.a.		
	7 (128)		Virgin Mode	0= Off, 128= On	
	8 (256)	Hotel Mode		0= Off, 256= On	
	9 (512)	Content Browser		0= Not Present, 512= Present	
	10 (1024)	Connected Planet		0= Off, 1024= Full Connected Planet + logo support	
	11 (2048)				
	12 (4096)	ATSC/DVB-T		0= Off, 4096= On	
	13 (8192)	IR Blaster		0= Off, 8192= On	
	14 (16384)	EPG		0= Off, 16384= On	
	15 (32768)	TV Guide USA (Gemstar)		0= Off, 32768= On	
8	0 (1)	n.a.	n.a.		
	1 (2)	n.a.	n.a.		
	2 (4)	n.a.	n.a.		
	3 (8)	n.a.	n.a.		
	4 (16)	n.a.	n.a.		
	5 (32)	n.a.	n.a.		
	6 (64)	n.a.	n.a.		
	7 (128)	n.a.	n.a.		
	8 (256)	n.a.	n.a.		
	9 (512)	n.a.	n.a.		
	10 (1024)	n.a.	n.a.		
	11 (2048)	n.a.	n.a.		
	12 (4096)	n.a.	n.a.		
	13 (8192)	n.a.	n.a.		
	14 (16384)	n.a.	n.a.		
	15 (32768)	n.a.	n.a.		

9. Circuit Descriptions, Abbreviation List, and IC Data Sheets

Index of this chapter:

9.1 Introduction
9.2 LCD Power Supply
9.3 Front-End
9.4 DC/DC Converters (SSB)
9.5 Inputs
9.6 Common Interface (CI)
9.7 MPIF (PNX 3000)
9.8 PNX2015
9.9 SPIDER (T6TE0TBG)
9.10 VIPER 2 (PNX 8550)
9.11 Back-end
9.12 Ambient Light
9.13 Abbreviation List
9.14 IC Data Sheets

Notes:

- Only **new** circuits (circuits that are not published recently) are described.
- Figures can deviate slightly from the actual situation, due to different set executions.
- For a good understanding of the following circuit descriptions, please use the wiring, block (chapter 6) and circuit diagrams (chapter 7). Where necessary, you will find a separate drawing for clarification.

9.1 Introduction

This chassis (development name “Jaguar “) is: The move from the analogue world to the digital world. W.o.w. from signal processing via "hardware circuits" to signal processing via "software algorithms". This means: no software = no picture and sound!

Some key components are:

- Common Interface (CI) circuitry (only for digital sets).
- MPIF (PNX3000).
- AVIP/COLUMBUS (PNX2015).
- SPIDER (T6TE0TBG).
- VIPER 2 (PNX8550).
- FPGA (EPLD or MOP).
- PACIFIC 3 (T6TF4HFG-0002).

9.1.1 Features

The main features for this chassis are:

- Fit for both analogue and digital signal processing, this by converting analogue signals into digital transport streams and allowing seamless zapping between all possible signal sources. This makes the chassis applicable for e.g. receiving DVB-T in an integrated product form.
- AmbiLight: a unique technology that, in real-time, analyses incoming television signals and produces background lighting that matches the images displayed on the screen.
- The internal digital processing allows new "Multi-Media" applications such as Content Browser, Memory Card Slot, Local Area Network support and all kinds of streaming applications.
- The chassis can be upgraded in the future with internal functionality such as Personal Video Recording, DVD/RW, MPEG playback.

The Pacific 3 provides Pixel Plus in all models. This ensures additional sharpening, and contrast and colour enhancements to the picture.

9.1.2 Jaguar Architecture Overview

For details about the chassis block diagrams refer to chapter “Block diagrams, Test Point Overview, and Waveforms”. An overview of the Jaguar architecture can be found in figure “Architecture of Full Jaguar with Spider”.

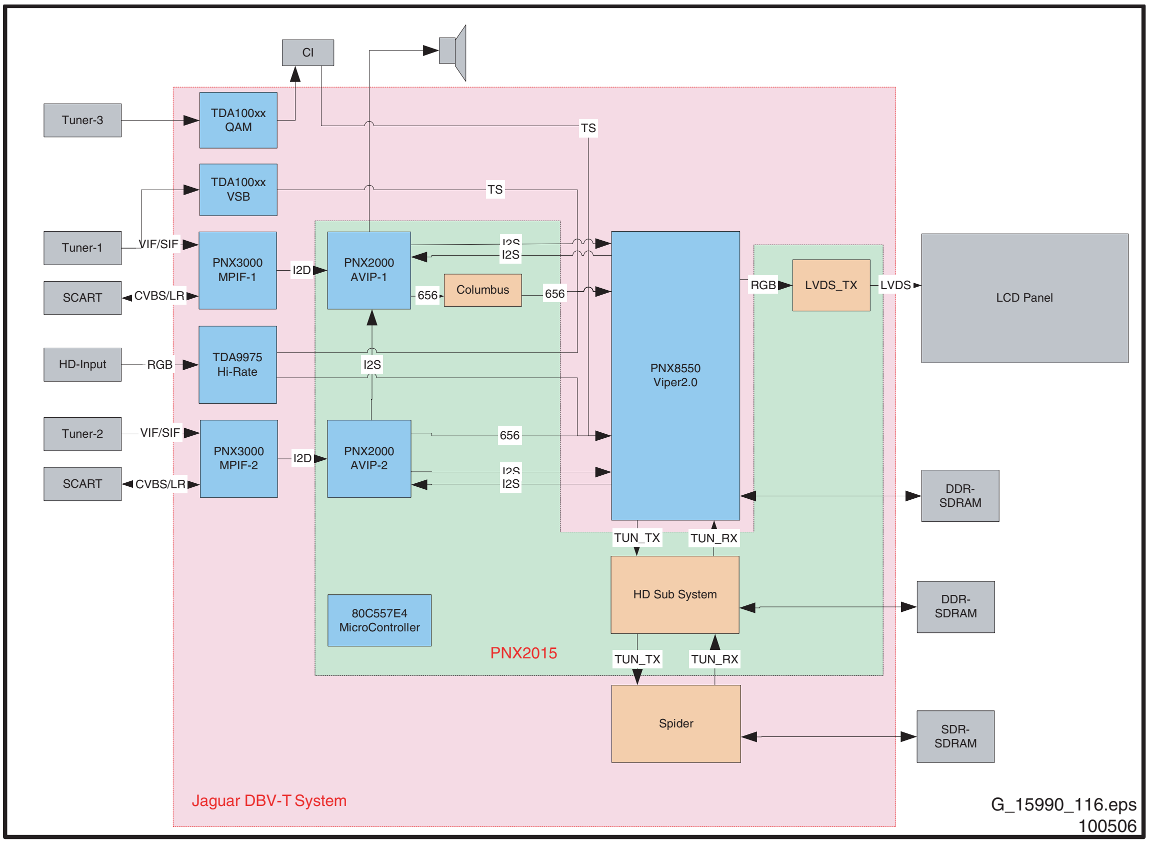

CI
Tuner-3
TDA100xx QAM
TS
TDA100xx VSB
TS
Tuner-1
VIF/SIF
PNX3000 MPIF-1
I2D
PNX2000 AVIP-1
I2S
I2S
SCART
CVBS/LR
656
Columbus
656
RGB
LVDS_TX
LVDS
LCD Panel
HD-Input
RGB
TDA9975 Hi-Rate
I2S
PNX8550 Viper2.0
Tuner-2
VIF/SIF
PNX3000 MPIF-2
I2D
PNX2000 AVIP-2
656
I2S
I2S
SCART
CVBS/LR
DDR-SDRAM
TUN_TX
TUN_RX
HD Sub System
DDR-SDRAM
80C557E4 MicroController
PNX2015
TUN_TX
TUN_RX
Spider
SDR-SDRAM
Jaguar DBV-T System
G_15990_116.eps
100506

Figure 9-1 Architecture of Full Jaguar with Spider

Tuner diversity

The SSB can be equipped with two tuners: the main tuner TD1316AF and the sub tuner UV1318ST. The main tuner can receive digital and analogue signals, whereas the sub tuner can only receive analogue signals. Some sets are only equipped with an analogue tuner. Refer to chapter 9.3 “Front-End” for details.

Analogue Reception

The TV receives multimedia information by tuning to one of many 6 MHz input channels available via a cable connection. When the input channel is an analogue channel, the signal is processed via the PAL/SECAM decoder and the VBI data decoder.

Digital Reception

The CI module consists of the following functional blocks: Conditional Access Module (CAM), Out of Band part, and buffering. These blocks are interfacing with the DVB-T In Band (IB) channel decoder and Out of Band (OOB) channel decoder. The interface is connected to the VIPER. Also the Common Interface outgoing Transport Stream (TS) is routed to the VIPER.

The TV receives multimedia information by tuning to one of many 6 MHz input channels available via a cable connection. When the input channel is a digital channel, it is processed via the QAM demodulator and then passed to the Common Interface device (CI) where secure and scrambled information is processed. Non-scrambled information is passed through the CAM to the MPEG-2 Transport Demultiplexer. When the CAM is not inserted, the output of the QAM demodulator is routed directly to the MPEG-2 Transport Demultiplexer. The multi-media processor (VIPER) handles the synchronization and display of audio-visual material.

The OpenCable Host Device also receives control information and other data by tuning to an Out-Of-Band (OOB) Forward Data Channel (FDC) channel. The terminal will remain tuned to the OOB Forward Data Channel (own tuner) to continuously receive information. This information is passed to the CAM for processing, and relevant information is passed back to the TV.

Signal Processing

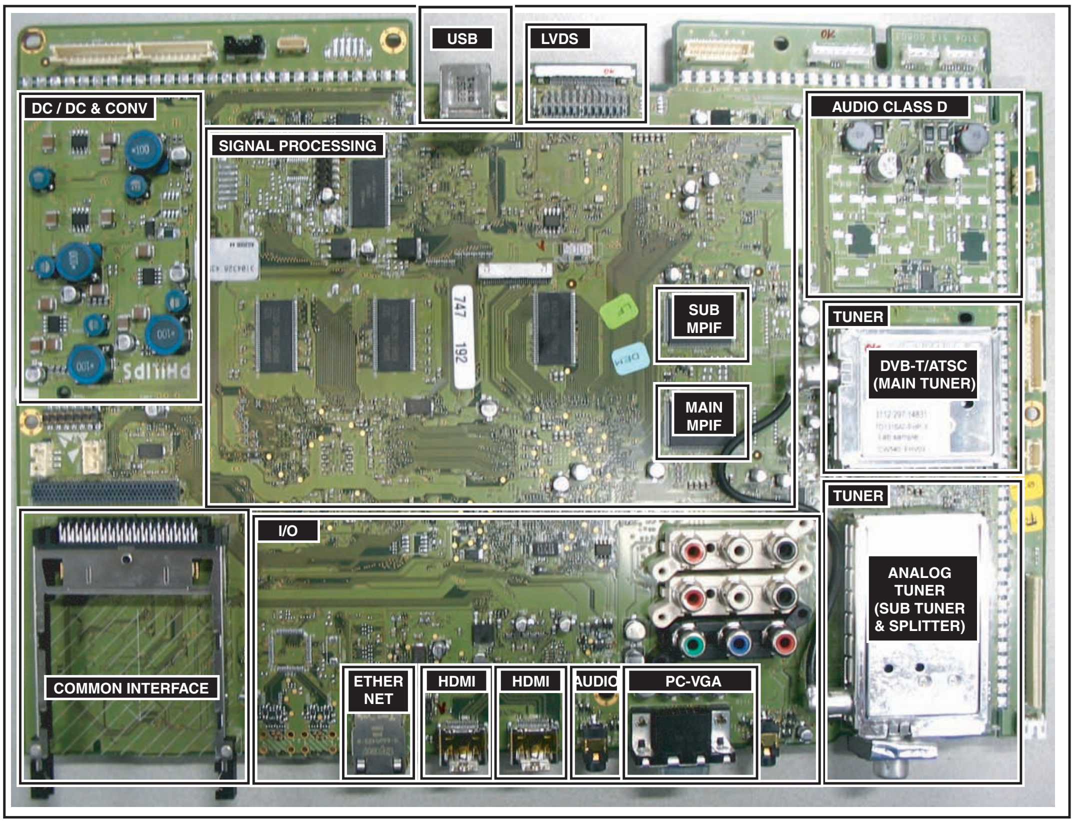
The AVIP together with the MPIF device is used to perform the input decoding of a single stream of analogue audio and video broadcast signals. In addition, the AVIP is used for decoding and presentation of audio output streams. The main data connection between MPIF and AVIP is done via an I^2D bus. The AVIP converts the incoming video data to ITU-656 format for communication to the VIPER IC. The audio data is transferred between the AVIP and VIPER using I^2S.

The AVIP IC is controlled by the VIPER via the I^2C bus.

The key part in the system, the VIPER, performs almost all key features, like video quality enhancement, motion compensation, picture-in-picture processing, and others. It is a completely digital IC with a TriMedia DSP (Digital Signal Processor) core and a MIPS microcontroller core. The DSP and some additional cores are used to do the video feature processing and some auxiliary sound feature processing. The MIPS microcontroller core is used for all internal and external controlling tasks including a system wide I^2C bus.

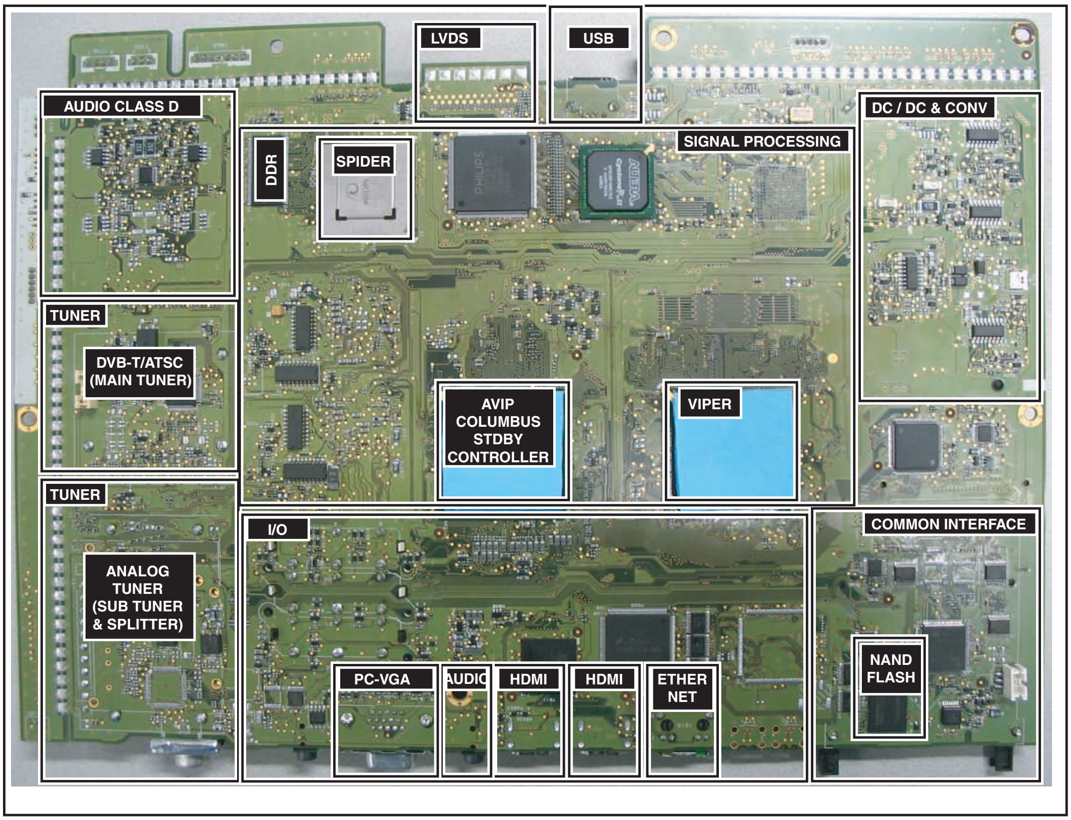
The VIPER provides a primary digital (YUV or RGB) output to the Pacific 3, which on his turn processes the data to the LVDS transmitter. For models with the AmbiLight feature, an FPGA is connected between VIPER output and LVDS Transmitter input. This FPGA (or EPLD or MOP) is used for the AmbiLight processing and some picture enhancements.

9.1.3 SSB Cell Layout



G_15990_120.eps
180706

Figure 9-2 SSB top view


LVDS
USB
AUDIO CLASS D
DC / DC & CONV
SIGNAL PROCESSING
DDR
SPIDER
TUNER
DVB-T/ATSC (MAIN TUNER)
AVIP COLUMBUS STDBY CONTROLLER
VIPER
TUNER
ANALOG TUNER (SUB TUNER & SPLITTER)
I/O
COMMON INTERFACE
NAND FLASH
PC-VGA
AUDIO
HDMI
HDMI
ETHER NET

G_15990_121.eps
180706

Figure 9-3 SSB bottom view

9.2 LCD Power Supply

9.2.1 Introduction

For a general description of the LCD Power Supply Unit (all displays) see the BL2.xU Service Manual.

32” Sets

For the 32” LCD set the main differences with this previous chassis are:

- Supply Unit delivers 24 V and 295 V supply for display. Layout, trafo, diodes and elco’s have changed.
- 12 V for Top AmbiLight (if present).
- +/- 12 V supply for audio class D amplifier, except for US sets, where the supply voltage for audio class D amplifier is the same as in BL2.xU chassis (+/- 18 V).
- Mains overvoltage protection circuit, situated on MF supply panel, is latched to stop the supply. After that, a 12 V drop causes a software protection.
- The 24 V supply is separately stabilized with a MOSFET. The 295 V supply is stabilized on the 12 V supply. There is a mutual influence of less than 5 %.
- Extended display connectivity.

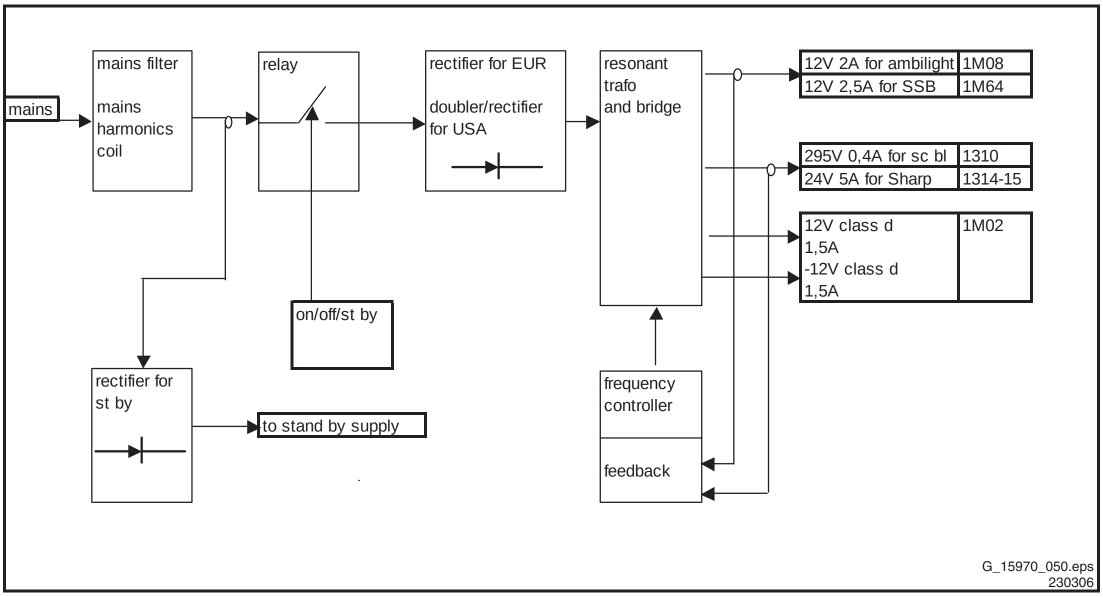

mains
mains filter
mains harmonics coil
relay
rectifier for EUR
doubler/rectifier for USA
resonant trafo and bridge
12V 2A for ambilight
1M08
12V 2,5A for SSB
1M64
295V 0,4A for sc bl
1310
24V 5A for Sharp
1314-15
12V class d 1,5A
-12V class d 1,5A
1M02
on/off/st by
rectifier for st by
to stand by supply
frequency controller
feedback
G_15970_050.eps
230306

Figure 9-4 Block diagram LCD Power Supply 32”

37” Sets

For the 37” LCD set the main differences with the BL2.xU chassis are:

- Supply Unit delivers only 24 V for display and 12 V for Top AmbiLight (if present). No power supply for SSB and audio panel. Changed architecture. Separate platform and display supply but merged on the same board for cost reasons.
- On BL2.xU chassis the correct working of the 12 V supply was sensed on the SSB, whereas in this chassis a so-called Power-Good line indicates the correct functioning of the 12 V and 24 V supply (for some set types see error 63 description in chapter 5). This is polled by the UPROC (PNX).
- Mains overvoltage protection shuts down the supply: Power-Good goes low.
- Supply is stabilized on the 24 V supply. The 12 V supply fluctuates with the load on the 24 V supply however this is not critical.
- Extended display connectivity.

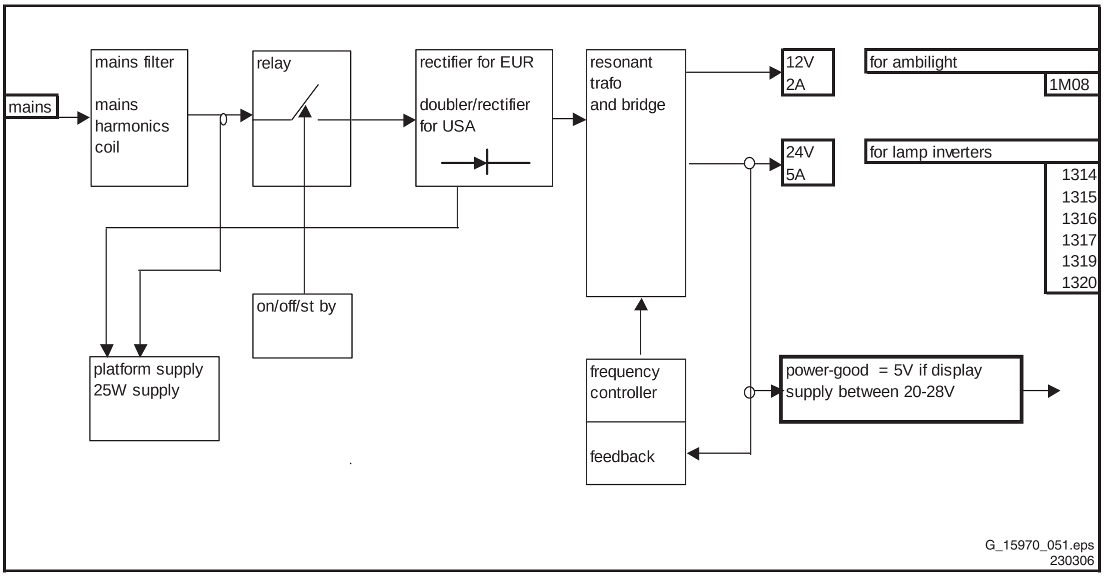

mains
mains filter
mains harmonics coil
relay
rectifier for EUR
doubler/rectifier for USA
resonant trafo and bridge
12V 2A
for ambilight
1M08
24V 5A
for lamp inverters
1314
1315
1316
1317
1319
1320
on/off/st by
platform supply 25W supply
frequency controller
feedback
power-good = 5V if display supply between 20-28V
G_15970_051.eps
230306

Figure 9-5 Block diagram LCD Power Supply 37”

42" Sets

For a detailed description of the Platform Supply Unit, refer to the BL2.xU AA Service Manual.

In addition, all 42" sets in this chassis come with an extra buy-in "Sanken" Display Supply Unit. These Supply Units are a "black box" for Service. When defective, first check if the main fuse of the supply is broken. Refer to section "Sanken Display Supply" in chapter 5 for details. Otherwise, a new panel must be ordered and after receipt, the defective panel must be sent for repair.

Two different set-specific "Sanken" Supply Units are used in this chassis.

- The 42PF9831/69 and 42PF9831D/10 ("Top A" sets) use a supply unit which delivers the following voltages to the chassis:
- +12 V DC
- +295 V DC
- +400 V DC
- The 42PF9641D/10 and 42PF9731D/10 ("Top B" and "Step 2k6" sets) use a supply unit which delivers the following voltages to the chassis:
- +12 V DC
- +24 V DC
- +400 V DC

Refer to the Spare Parts List for the correct order number.

9.3 Front-End

Main goal of the front-end module is to connect the host (core with source processing) with the outside world via an RF connector.

This chassis comes with three different front-end executions:
- For dual window DVB-T and analogue sets: two tuners (an analogue and a hybrid one).
- For non-dual window DVB-T sets: an empty analogue box and a hybrid tuner.
- For non-dual window analogue sets: only one analogue tuner.

9.3.1 Dual window applications (DVB-T and analogue sets)

The 37PF9731D/10 and 42PF9741D/10 digital (hybrid) sets and the 37PF9731/69 and 42PF9831/69 analogue sets use the UV1318ST analogue (sub)tuner **and** the TD1316AF hybrid (main)tuner. See figure "Block diagram dual window front-end (hybrid and analogue sets)" for details.

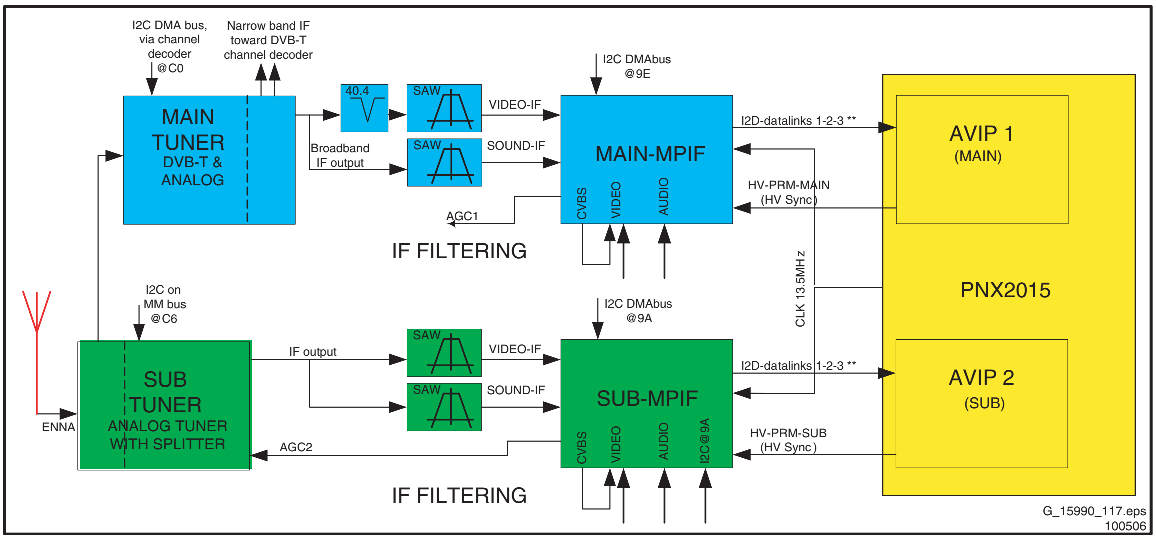

I2C DMA bus, via channel decoder @C0
Narrow band IF toward DVB-T channel decoder
40.4
SAW
VIDEO-IF
SOUND-IF
Broadband IF output
AGC1
MAIN TUNER DVB-T & ANALOG
I2C DMAbus @9E
MAIN-MPIF
CVBS
VIDEO
AUDIO
I2D-datalinks 1-2-3 **
AVIP 1 (MAIN)
HV-PRM-MAIN (HV Sync)
IF FILTERING
CLK 13.5MHz
PNX2015
I2C on MM bus @C6
I2C DMAbus @9A
SUB TUNER
ANALOG TUNER WITH SPLITTER
ENNA
IF output
AGC2
SUB-MPIF
I2C@9A
AVIP 2 (SUB)
HV-PRM-SUB (HV Sync)
G_15990_117.eps 100506

Figure 9-6 Block diagram dual window front-end (hybrid and analogue sets)

9.3.2 Non-dual window DVB-T applications

The 32PF9631D/10, 32PF9731D/10 and 42PF9641D/10 digital (hybrid) sets use the TD1316AF hybrid (main) tuner **and** an empty (dummy) tuner box (the UV1300T/1) as splitter. See figure "Block diagram non-dual window front-end (hybrid sets)" for details.

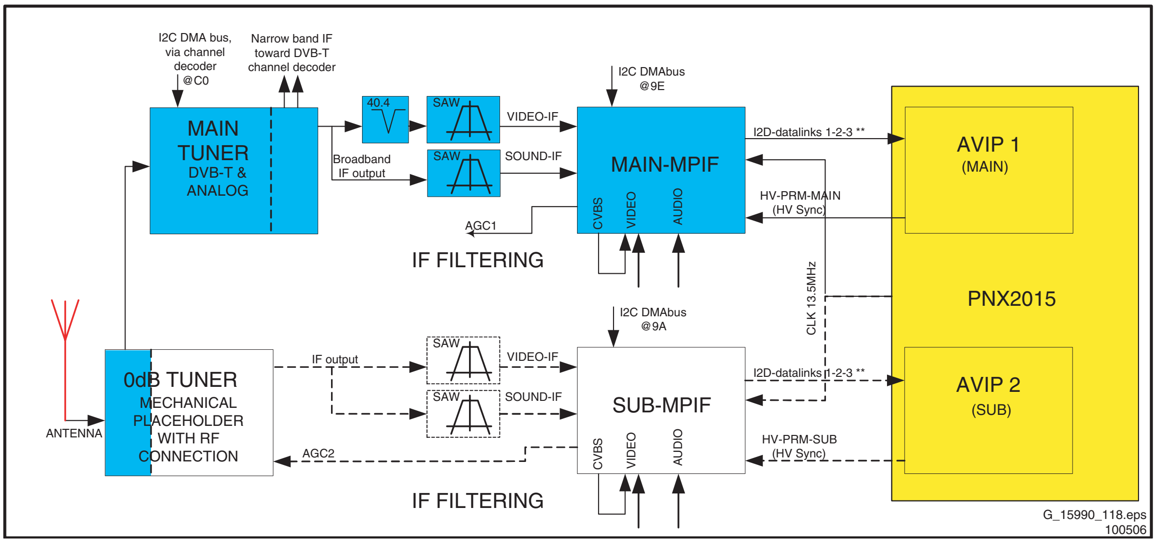

I2C DMA bus, via channel decoder @C0
Narrow band IF toward DVB-T channel decoder
MAIN TUNER DVB-T & ANALOG
40.4
SAW
VIDEO-IF
SAW
SOUND-IF
Broadband IF output
I2C DMAbus @9E
MAIN-MPIF
CVBS
VIDEO
AUDIO
AGC1
IF FILTERING
I2D-datalinks 1-2-3 **
HV-PRM-MAIN (HV Sync)
AVIP 1 (MAIN)
PNX2015
CLK 13.5MHz
I2C DMAbus @9A
0dB TUNER MECHANICAL PLACEHOLDER WITH RF CONNECTION
ANTENNA
IF output
SAW
VIDEO-IF
SAW
SOUND-IF
SUB-MPIF
AGC2
CVBS
VIDEO
AUDIO
I2D-datalinks 1-2-3 **
HV-PRM-SUB (HV Sync)
AVIP 2 (SUB)
IF FILTERING
G_15990_118.eps 100506

Figure 9-7 Block diagram non-dual window front-end (hybrid sets)

9.3.3 Non-dual window analogue applications

The 32PF9531/10 analogue set uses the UV1318ST analogue tuner. See figure “Block diagram non-dual window front-end (analogue sets)” for details.

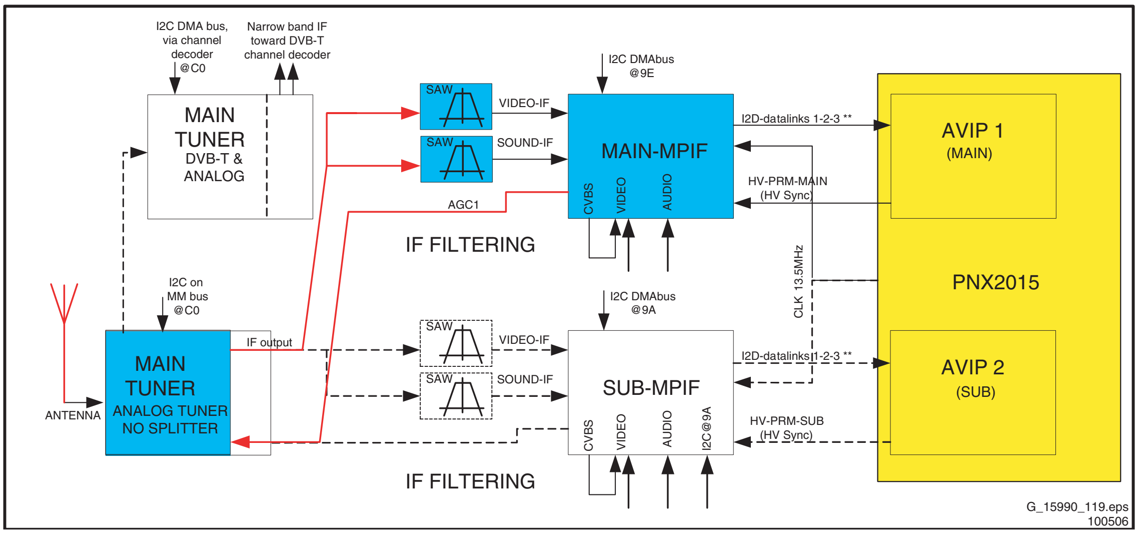

I2C DMA bus, via channel decoder @C0
Narrow band IF toward DVB-T channel decoder
MAIN TUNER DVB-T & ANALOG
SAW
VIDEO-IF
SAW
SOUND-IF
I2C DMAbus @9E
MAIN-MPIF
CVBS
VIDEO
AUDIO
AGC1
IF FILTERING
I2D-datalinks 1-2-3 **
HV-PRM-MAIN (HV Sync)
AVIP 1 (MAIN)
PNX2015
CLK 13.5MHz
I2C on MM bus @C0
I2C DMAbus @9A
MAIN TUNER ANALOG TUNER NO SPLITTER
ANTENNA
IF output
SAW
VIDEO-IF
SAW
SOUND-IF
SUB-MPIF
CVBS
VIDEO
AUDIO
I2C@9A
I2D-datalinks 1-2-3 **
HV-PRM-SUB (HV Sync)
AVIP 2 (SUB)
IF FILTERING
G_15990_119.eps 100506

Figure 9-8 Block diagram non-dual window front-end (analogue sets)

9.4 DC/DC Converters (SSB)

9.4.1 Introduction

The LCD Supply is the main power supply for this chassis. This Power Supply delivers the following supply voltages to the chassis:

- +12VS.
- +8V6.
- +5V2.
- +5V.

For a (more) detailed description of the on-board DC/DC converters refer to the BL2.x U Service Manual.

9.5 Inputs

For a (more) detailed description of the Inputs refer to the JL2.1E AA Service Manual.

9.6 Common Interface (CI)

For a (more) detailed description of the Common Interface refer to the BJ3.0E LA Service Manual.

9.7 MPIF (PNX 3000)

For a (more) detailed description of the Multi Platform Interface (MPIF; PNX 3000) converters see the BP2.xU Service Manual.

9.8 PNX2015

The functional blocks of the PNX2015 (item 7J00) are:
- Audio Video Input Processor (AVIP).
- 3D Comb Filter (COLUMBUS).
- High Definition MPEG Decoder (HD Subsystem).
- LVDS transmitter.
- Standby Processor for low-power control.

For a (more) detailed description of the PNX2015 refer to the BP2.xU Service Manual.

9.9 SPIDER (T6TE0TBG)

For a (more) detailed description of the SPIDER refer to the JL2.1E AA Service Manual.

9.10 VIPER 2 (PNX 8550)

The PNX8550 is a highly integrated media processor intended for deployment in analogue, digital, and hybrid TV receivers. It can be used for 100 Hz interlaced as well as 60 Hz progressive screens. It is fully capable of performing advanced video improvement algorithms, such as Digital Natural Motion™, on Standard Definition analogue or digital sources. It includes an HD capable de-interlacer for converting interlaced HD transmission signals to progressive output for driving wide-XGA class Plasma or LCD displays. Two 32-bit 240 MHz VLIW media processors, referred to as the TriMedia TM3260 CPU core, carry out the advanced video improvement processing as well as all audio operations. Fixed hardware functions perform stable core video functions, such as picture level MPEG2 decoding, scaling, image composition and pixel post processing.

The PNX8550 provides a primary digital (YUV or RGB) output to connect to the display specific output processor. In addition, a secondary analogue video output (CVBS or S-Video) for a VCR is available. This is the so-called DENC-out. It can operate either in analogue PAL/NTSC or digital mode.

For a (more) detailed description of the PNX8550 see the BP2.xU manual.

9.11 Back-end

In this chassis an FPGA (or EPLD or MOP) is used for AmbiLight processing and for addressing the LCD display.

The flow of signals varies with the different set executions. In general:
- In sets with an 1080p (full-HD) display, the video signal, coming from the Viper, is fed to an FPGA (the “Cyclone II”) and then flows into the Pacific 3.
- In some other sets (non full-HD) display, the video signal coming from the Viper directly flows into the Pacific 3. However, an FPGA (the “Spartan 3E”) is used to drive the AmbiLight units.
- In all other sets (non full-HD) display, no FPGA is used to drive the AmbiLight units and a microprocessor is used to drive the lamp units, as described in BJ3.0E LA manual.

In the next sections, the differences are further explained.

9.11.1 Display Control Full-HD sets

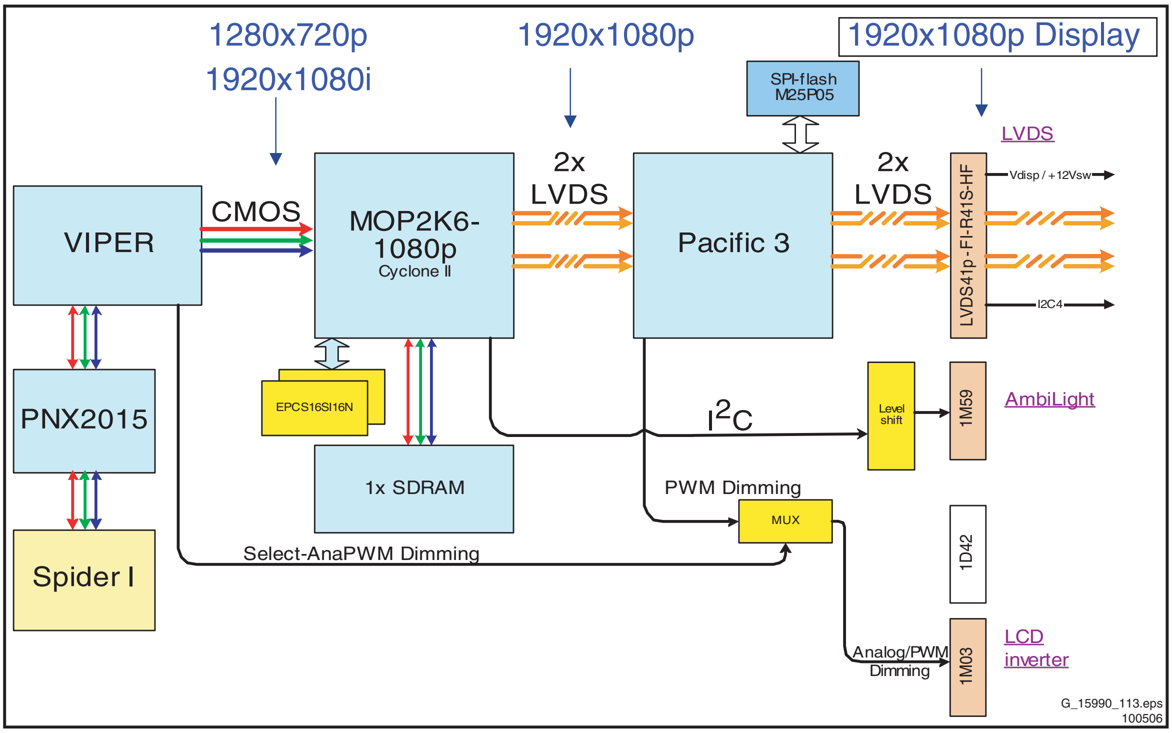


Figure 9-9 Block diagram display control full-HD sets with FPGA

In the full-HD sets, the video signal coming from the Viper is fed to the “Cyclone II” FPGA for further processing. The video signal coming from the MOP is fed to the Pacific 3 through an LVDS connection and then connected to the display. The MOP also drives the AmbiLight units through an I^{2}C connection. The Pacific 3 also generates the pulse-width modulated signal needed for the “Dimming Backlight” feature, which ensures additional motion sharpness. As some displays require an analogue signal to switch the LCD, a multiplexer is added to transform the pulse-width modulated signal. An additional signal, coming from the Viper, makes the selection between analogue and pulse-width modulation, depending on which display is used.
The MOP performs the following tasks:

- Scaling of input signals to output in case not an 1080i signal is received.
- Deinterlacing of input signals to output in case an 1080i signal is received.
- Additional sharpness improvement.
- AmbiLight drive (3 or 4 regions).
- Pattern generator.

The MOP interfaces:

- CMOS video input, and dual LVDS output.
- I^{2}C output for driving the AmbiLight unit.
- Additional configuration flash memory.
- Field memory (SDRAM) for video processing part.

9.11.2 Display Control Non Full-HD sets with FPGA

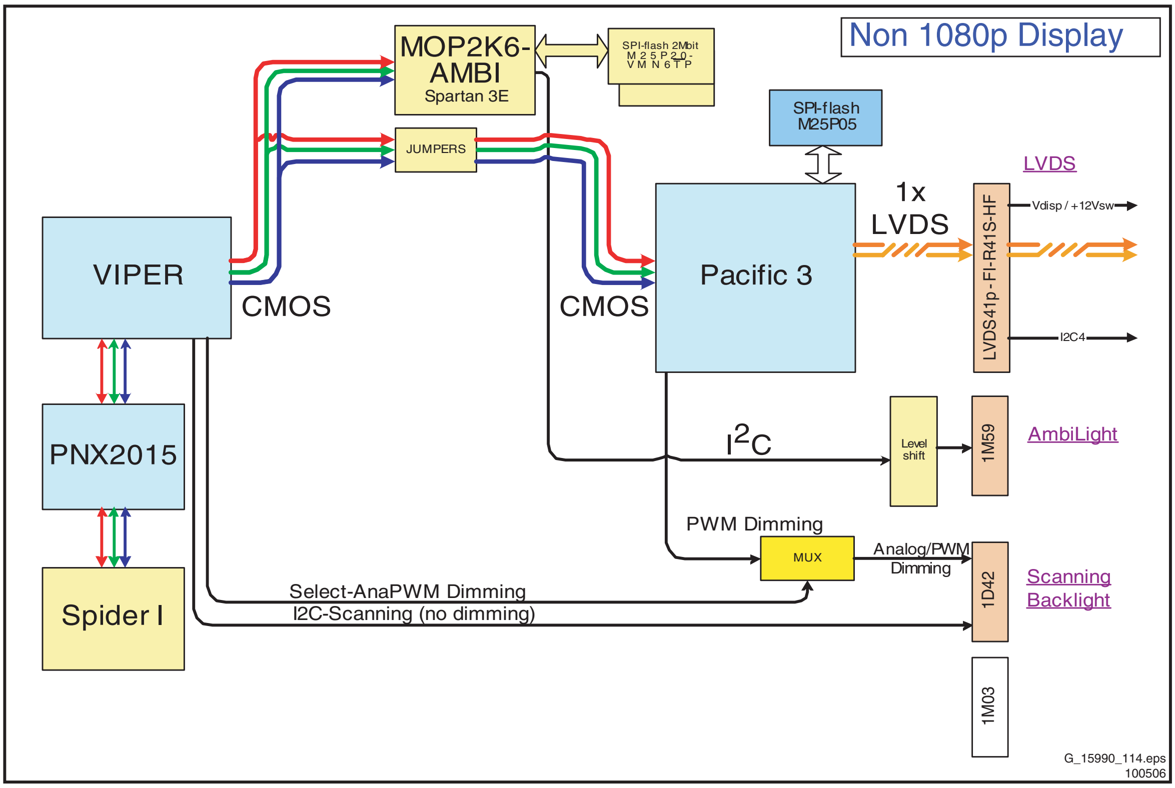

Non 1080p Display
MOP2K6-AMBI
Spartan 3E
SPI-flash 2Mbit M25P20-VMN6TP
JUMPERS
SPI-flash M25P05
VIPER
CMOS
CMOS
Pacific 3
1x LVDS
LVDS41p-FI-R41S-HF
LVDS
Vdisp / +12Vsw
I2C4
PNX2015
Spider I
I^{2}C
Level shift
1M59
AmbiLight
PWM Dimming
MUX
Analog/PWM Dimming
1D42
Scanning Backlight
Select-AnaPWM Dimming
I2C-Scanning (no dimming)
1M03
G_15990_114.eps
100506

Figure 9-10 Block diagram display control non full-HD sets with FPGA

In non full-HD sets with an FPGA, the video signal coming from the Viper is directly fed to the Pacific 3 through an CMOS connection. The FPGA however is used for AmbiLight processing through an I^{2}C connection. The signal for Dimming Backlight is coming from the Pacific 3 and can be analogue or pulse-width modulated, depending on which display is used. The signal for Scanning Backlight is an I^{2}C signal coming from Viper. The MOP interfaces:

- CMOS video input.
- I^{2}C output for driving the AmbiLight unit.
- Additional configuration flash memory.

9.11.3 Display Control Non Full-HD sets without FPGA

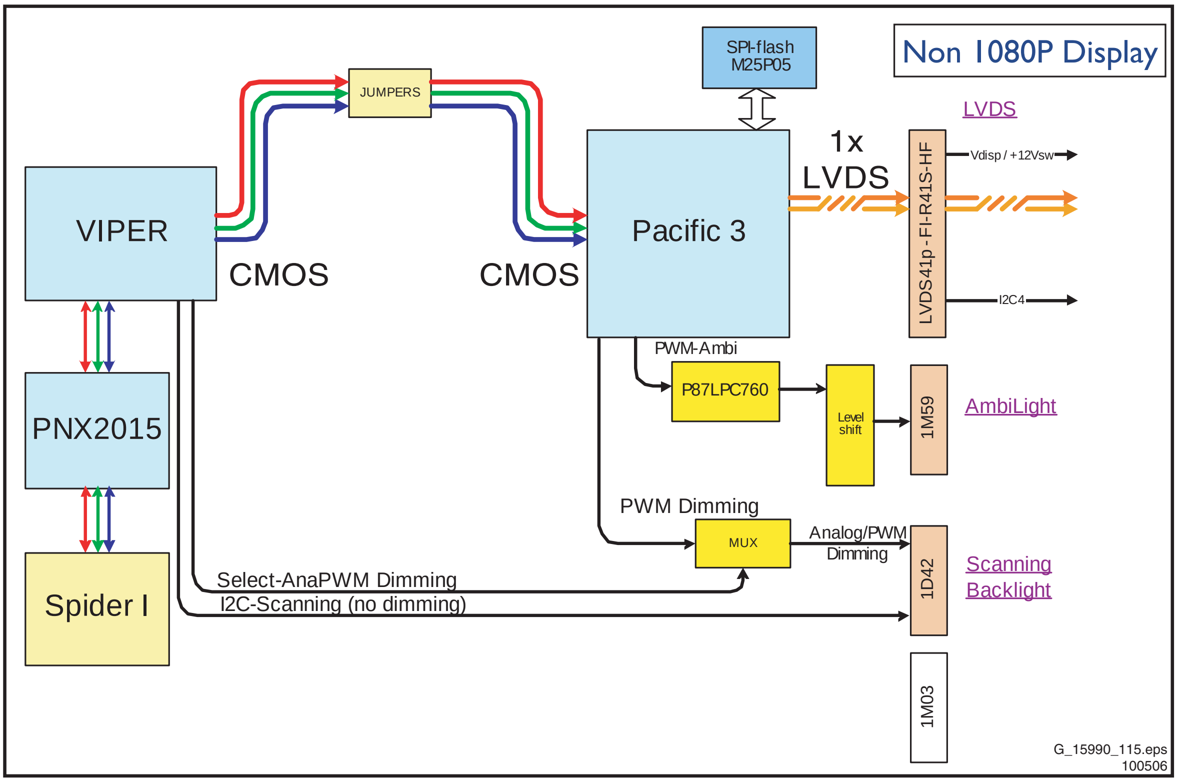

Non 1080P Display
SPI-flash
M25P05
JUMPERS
VIPER
CMOS
CMOS
Pacific 3
1x
LVDS
LVDS
LVDS41p-FI-R41S-HF
Vdisp / +12Vsw
I2C4
PNX2015
Spider I
PWM-Ambi
P87LPC760
Level shift
1M59
AmbiLight
PWM Dimming
MUX
Analog/PWM
Dimming
1D42
Scanning
Backlight
Select-AnaPWM Dimming
I2C-Scanning (no dimming)
1M03
G_15990_115.eps
100506

Figure 9-11 Block diagram display control non full-HD sets without FPGA

In non full-HD sets without an FPGA, the video signal coming from the Viper is again directly fed to the Pacific 3 through a CMOS connection. In this case the Pacific 3 drives the AmbiLight units and generates the pulse-width modulated signal needed for the “Dimming Backlight” feature. This configuration is also described in the BJ3.0x LA service manuals.

The Pacific performs the following tasks:

- Colour processing.
- Additional sharpness improvement.
- Backlight dimming.
- AmbiLight drive (2 regions).
- Display switch ON and OFF.
- Pattern generator.

The Pacific interfaces:

- CMOS video input, and LVDS video output.
- Backlight dimming is implemented through pulse-width modulated signal.
- AmbiLight driving is also implemented through pulse-width modulated signal.
- Additional configuration flash memory.

9.12 Ambient Light

For a (more) detailed description of the Inputs refer to the BP2.xU Service Manual.

9.13 Abbreviation List

0/6/12	SCART switch control signal on A/V board. 0 = loop through (AUX to TV), 6 = play 16:9 format, 12 = play 4:3 format
2DNR	Spatial (2D) Noise Reduction
3DNR	Temporal (3D) Noise Reduction
AARA	Automatic Aspect Ratio Adaptation: algorithm that adapts aspect ratio to remove horizontal black bars; keeps the original aspect ratio
ACI	Automatic Channel Installation: algorithm that installs TV channels directly from a cable network by means of a predefined TXT page
ADC	Analogue to Digital Converter
AFC	Automatic Frequency Control: control signal used to tune to the correct frequency
AGC	Automatic Gain Control: algorithm that controls the video input of the feature box
AM	Amplitude Modulation
ANR	Automatic Noise Reduction: one of the algorithms of Auto TV
AP	Asia Pacific
AR	Aspect Ratio: 4 by 3 or 16 by 9
ASF	Auto Screen Fit: algorithm that adapts aspect ratio to remove horizontal black bars without discarding video information
ATSC	Advanced Television Systems Committee, the digital TV standard in the USA
ATV	See Auto TV
Auto TV	A hardware and software control system that measures picture content, and adapts image parameters in a dynamic way
AV	External Audio Video
AVIP	Audio Video Input Processor
B/G	Monochrome TV system. Sound carrier distance is 5.5 MHz
BLR	Board-Level Repair
BTSC	Broadcast Television Standard Committee. Multiplex FM stereo sound system, originating from the USA and used e.g. in LATAM and AP-NTSC countries
B-TXT	Blue TeleteXT
C	Centre channel (audio)
CEC	Consumer Electronics Control bus: remote control bus on HDMI connections
CL	Constant Level: audio output to connect with an external amplifier
CLR	Component Level Repair
COLUMBUS	COlour LUMinance Baseband Universal Sub-system
ComPair	Computer aided rePair
CP	Connected Planet / Copy Protection
CSM	Customer Service Mode
CTI	Colour Transient Improvement: manipulates steepness of chroma transients
CVBS	Composite Video Blanking and Synchronization
DAC	Digital to Analogue Converter
DBE	Dynamic Bass Enhancement: extra low frequency amplification
DDC	See "E-DDC"
D/K	Monochrome TV system. Sound carrier distance is 6.5 MHz
DFU	Directions For Use: owner's manual
DMR	Digital Media Reader: card reader
DNR	Digital Noise Reduction: noise reduction feature of the set
DRAM	Dynamic RAM
DRM	Digital Rights Management
DSP	Digital Signal Processing
DST	Dealer Service Tool: special remote control designed for service technicians
DTCP	Digital Transmission Content Protection; A protocol for protecting digital audio/video content that is traversing a high speed serial bus, such as IEEE-1394
DVD	Digital Versatile Disc
DVI(-d)	Digital Visual Interface (d= digital only)
E-DDC	Enhanced Display Data Channel (VESA standard for communication channel and display). Using E-DDC, the video source can read the EDID information form the display.
EDID	Extended Display Identification Data (VESA standard)
EEPROM	Electrically Erasable and Programmable Read Only Memory
EMI	Electro Magnetic Interference
EPLD	Erasable Programmable Logic Device
EU	Europe
EXT	EXTernal (source), entering the set by SCART or by cinches (jacks)
FBL	Fast BLanking: DC signal accompanying RGB signals
FDS	Full Dual Screen (same as FDW)
FDW	Full Dual Window (same as FDS)
FLASH	FLASH memory
FM	Field Memory or Frequency Modulation
FPGA	Field-Programmable Gate Array
FTV	Flat TeleVision
Gb/s	Giga bits per second
G-TXT	Green TeleteXT
H	H_sync to the module
HD	High Definition
HDD	Hard Disk Drive
HDCP	High-bandwidth Digital Content Protection: A "key" encoded into the HDMI/DVI signal that prevents video data piracy. If a source is HDCP coded and connected via HDMI/DVI without the proper HDCP decoding, the picture is put into a "snow vision" mode or changed to a low resolution. For normal content distribution the source and the display device must be enabled for HDCP "software key" decoding.
HDMI	High Definition Multimedia Interface
HP	HeadPhone
I	Monochrome TV system. Sound carrier distance is 6.0 MHz
I^2C	Inter IC bus
I^2D	Inter IC Data bus
I^2S	Inter IC Sound bus
IF	Intermediate Frequency
Interlaced	Scan mode where two fields are used to form one frame. Each field contains half the number of the total amount of lines. The fields are written in "pairs", causing line flicker.
IR	Infra Red
IRQ	Interrupt Request
ITU-656	The ITU Radio communication Sector (ITU-R) is a standards body subcommittee of the International

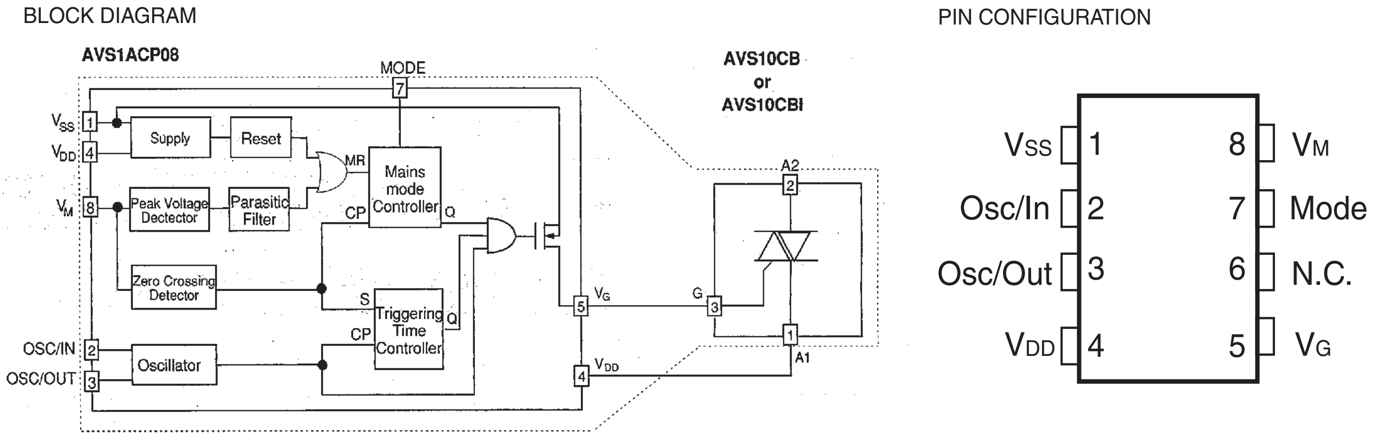
	Telecommunication Union relating to radio communication. ITU-656 (a.k.a. SDI), is a digitized video format used for broadcast grade video. Uncompressed digital component or digital composite signals can be used. The SDI signal is self-synchronizing, uses 8 bit or 10 bit data words, and has a maximum data rate of 270 Mbit/s, with a minimum bandwidth of 135 MHz.
ITV	Institutional TeleVision; TV sets for hotels, hospitals etc.
JOP	Jaguar Output Processor
LS	Last Status; The settings last chosen by the customer and read and stored in RAM or in the NVM. They are called at start-up of the set to configure it according to the customer's preferences
LATAM	Latin America
LCD	Liquid Crystal Display
LED	Light Emitting Diode
L/L'	Monochrome TV system. Sound carrier distance is 6.5 MHz. L' is Band I, L is all bands except for Band I
LORE	LOcal REgression approximation noise reduction
LPL	LG.Philips LCD (supplier)
LS	Loudspeaker
LVDS	Low Voltage Differential Signalling
Mbps	Mega bits per second
M/N	Monochrome TV system. Sound carrier distance is 4.5 MHz
MIPS	Microprocessor without Interlocked Pipeline-Stages; A RISC-based microprocessor
MOP	Matrix Output Processor
MOSFET	Metal Oxide Silicon Field Effect Transistor, switching device
MPEG	Motion Pictures Experts Group
MPIF	Multi Platform InterFace
MUTE	MUTE Line
NC	Not Connected
NICAM	Near Instantaneous Compounded Audio Multiplexing. This is a digital sound system, mainly used in Europe.
NTC	Negative Temperature Coefficient, non-linear resistor
NTSC	National Television Standard Committee. Colour system mainly used in North America and Japan. Colour carrier NTSC M/N= 3.579545 MHz, NTSC 4.43= 4.433619 MHz (this is a VCR norm, it is not transmitted off-air)
NVM	Non-Volatile Memory: IC containing TV related data such as alignments
O/C	Open Circuit
OSD	On Screen Display
OTC	On screen display Teletext and Control; also called Artistic (SAA5800)
P50	Project 50: communication protocol between TV and peripherals
PAL	Phase Alternating Line. Colour system mainly used in West Europe (colour carrier= 4.433619 MHz) and South America (colour carrier PAL M= 3.575612 MHz and PAL N= 3.582056 MHz)
PCB	Printed Circuit Board (same as "PWB")
PCM	Pulse Code Modulation
PDP	Plasma Display Panel
PFC	Power Factor Corrector (or Pre-conditioner)
PIP	Picture In Picture
PLL	Phase Locked Loop. Used for e.g. FST tuning systems. The customer can give directly the desired frequency
POR	Power On Reset, signal to reset the uP
Progressive Scan	Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution.
PTC	Positive Temperature Coefficient, non-linear resistor
PWB	Printed Wiring Board (same as "PCB")
PWM	Pulse Width Modulation
QTNR	Quality Temporal Noise Reduction
QVCP	Quality Video Composition Processor
RAM	Random Access Memory
RGB	Red, Green, and Blue. The primary colour signals for TV. By mixing levels of R, G, and B, all colours (Y/C) are reproduced.
RC	Remote Control
RC5 / RC6	Signal protocol from the remote control receiver
RESET	RESET signal
ROM	Read Only Memory
R-TXT	Red TeleteXT
SAM	Service Alignment Mode
S/C	Short Circuit
SCART	Syndicat des Constructeurs d'Appareils Radiorecepteurs et Televisieurs
SCL	Serial Clock I^2C
SCL-F	CLock Signal on Fast I^2C bus
SD	Standard Definition
SDA	Serial Data I^2C
SDA-F	DAta Signal on Fast I^2C bus
SDI	Serial Digital Interface, see “ITU-656”
SDRAM	Synchronous DRAM
SECAM	SEequence Couleur Avec Memoire. Colour system mainly used in France and East Europe. Colour carriers= 4.406250 MHz and 4.250000 MHz
SIF	Sound Intermediate Frequency
SMPS	Switched Mode Power Supply
SOG	Sync On Green
SOPS	Self Oscillating Power Supply
S/PDIF	Sony Philips Digital InterFace
SRAM	Static RAM
SSB	Small Signal Board
STBY	STand-BY
SVGA	800x600 (4:3)
SVHS	Super Video Home System
SW	Software
SWAN	Spatial temporal Weighted Averaging Noise reduction
SXGA	1280x1024
TFT	Thin Film Transistor
THD	Total Harmonic Distortion
TMDS	Transmission Minimized Differential Signalling
TXT	TeleteXT
TXT-DW	Dual Window with TeleteXT
uP	Microprocessor
UXGA	1600x1200 (4:3)
V	V-sync to the module
VCR	Video Cassette Recorder
VESA	Video Electronics Standards Association
VGA	640x480 (4:3)
VL	Variable Level out: processed audio output toward external amplifier
VSB	Vestigial Side Band; modulation method

WYSIWYR	What You See Is What You Record: record selection that follows main picture and sound
WXGA	1280x768 (15:9)
XTAL	Quartz crystal
XGA	1024x768 (4:3)
Y	Luminance signal
Y/C	Luminance (Y) and Chrominance (C) signal
YPbPr	Component video. Luminance and scaled colour difference signals (B-Y and R-Y)
YUV	Component video

9.14 IC Data Sheets

This section shows the internal block diagrams and pin configurations of ICs that are drawn as "black boxes" in the electrical diagrams (with the exception of "memory" and "logic" ICs).

9.14.1 Diagram A1, AVS1ACP08 (IC 7805)


BLOCK DIAGRAM
AVS1ACP08
MODE
7
V_{SS} 1
V_{DD} 4
V_M 8
Supply
Reset
MR
Mains mode Controller
Q
CP
Peak Voltage Dectector
Parasitic Filter
Zero Crossing Detector
S
CP
Triggering Time Controller
Q
OSC/IN 2
OSC/OUT 3
Oscillator
5 V_G
4 V_{DD}
AVS10CB or AVS10CBI
A2
2
G
3
1
A1
PIN CONFIGURATION
Vss 1
Osc/In 2
Osc/Out 3
VDD 4
8 VM
7 Mode
6 N.C.
5 VG

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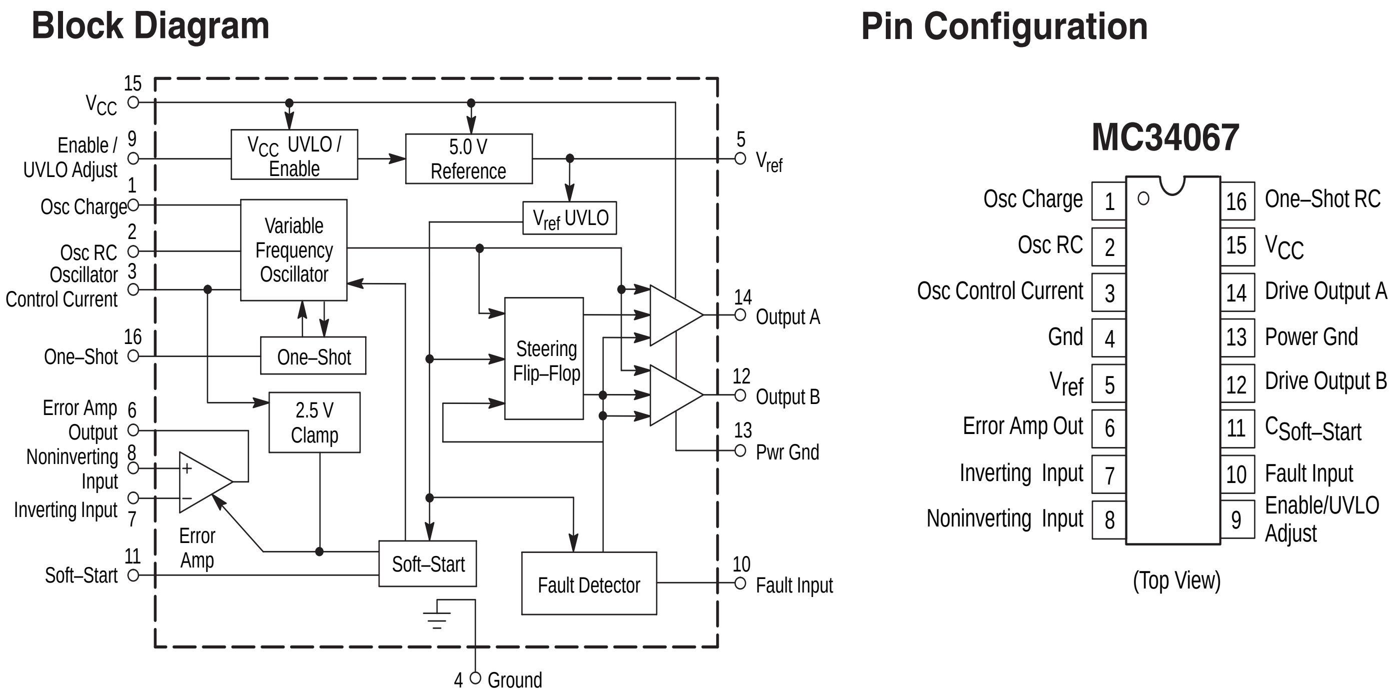
230905

Figure 9-12 Internal block diagram and pin configuration

9.14.2 Diagram A2, MC34067P (IC 7001)


Block Diagram
15 V_{CC}
9 Enable / UVLO Adjust
1 Osc Charge
2 Osc RC
3 Oscillator Control Current
16 One–Shot
6 Error Amp Output
8 Noninverting Input
7 Inverting Input
11 Soft–Start
V_{CC} UVLO / Enable
5.0 V Reference
V_{ref} UVLO
Variable Frequency Oscillator
One–Shot
2.5 V Clamp
Steering Flip–Flop
Error Amp
Soft–Start
Fault Detector
5 V_{ref}
14 Output A
12 Output B
13 Pwr Gnd
10 Fault Input
4 Ground
Pin Configuration
MC34067
Osc Charge 1
Osc RC 2
Osc Control Current 3
Gnd 4
V_{ref} 5
Error Amp Out 6
Inverting Input 7
Noninverting Input 8
16 One–Shot RC
15 V_{CC}
14 Drive Output A
13 Power Gnd
12 Drive Output B
11 $C_{Soft–Start}$
10 Fault Input
9 Enable/UVLO Adjust
(Top View)

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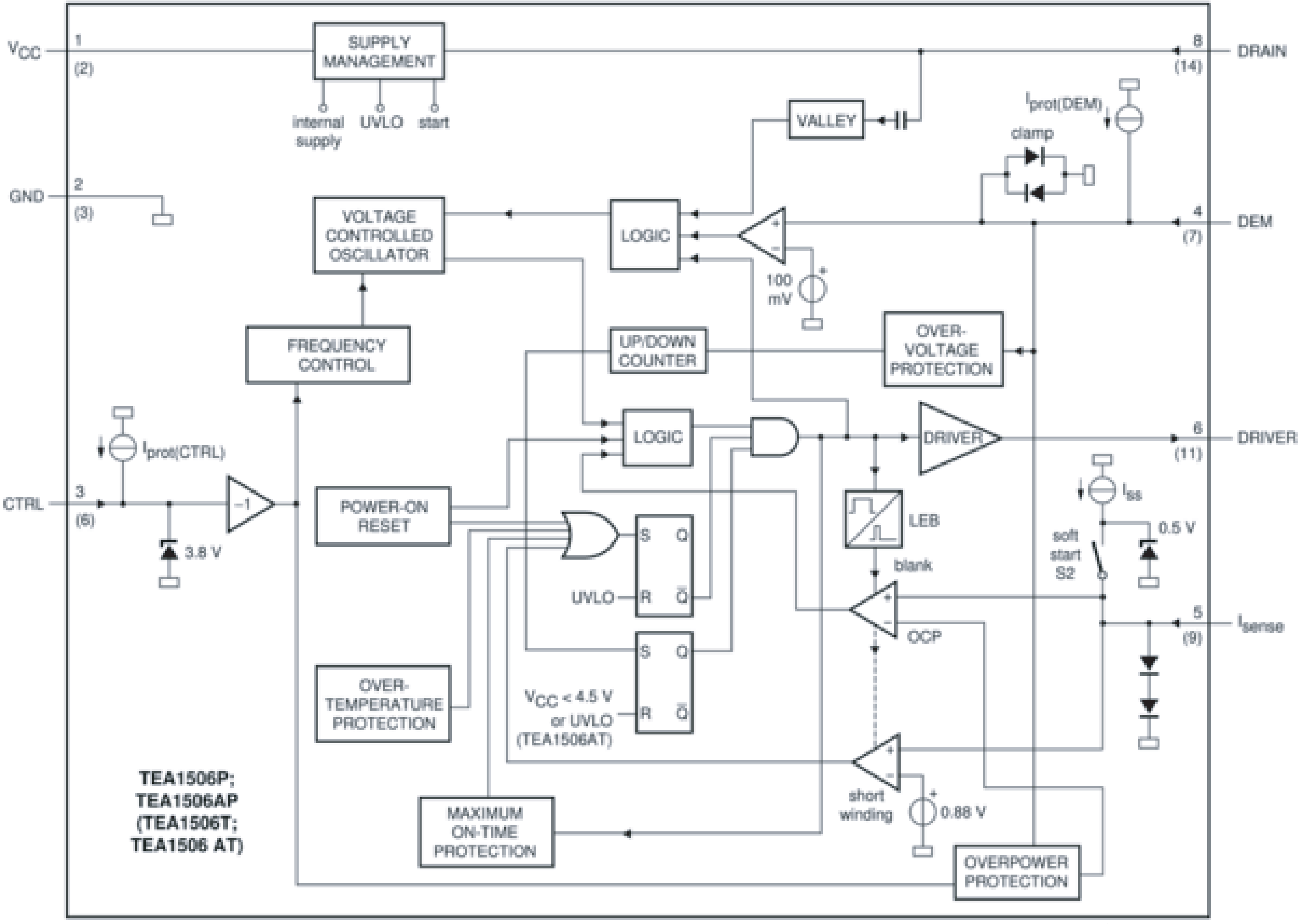
230905

Figure 9-13 Internal block diagram and pin configuration

9.14.3 Diagram A3, TEA1506AT (IC7P27)

Block Diagram


VCC
1
(2)
SUPPLY MANAGEMENT
internal supply
UVLO
start
8
(14)
DRAIN
VALLEY
Iprot(DEM)
clamp
GND
2
(3)
VOLTAGE CONTROLLED OSCILLATOR
LOGIC
100 mV
4
(7)
DEM
FREQUENCY CONTROL
UP/DOWN COUNTER
OVER-VOLTAGE PROTECTION
Iprot(CTRL)
LOGIC
DRIVER
6
(11)
DRIVER
CTRL
3
(6)
−1
3.8 V
POWER-ON RESET
S Q
R Q̄
UVLO
LEB
blank
Iss
0.5 V
soft start S2
OCP
5
(9)
Isense
OVER-TEMPERATURE PROTECTION
VCC < 4.5 V or UVLO (TEA1506AT)
S Q
R Q̄
short winding
0.88 V
TEA1506P; TEA1506AP (TEA1506T; TEA1506 AT)
MAXIMUM ON-TIME PROTECTION
OVERPOWER PROTECTION

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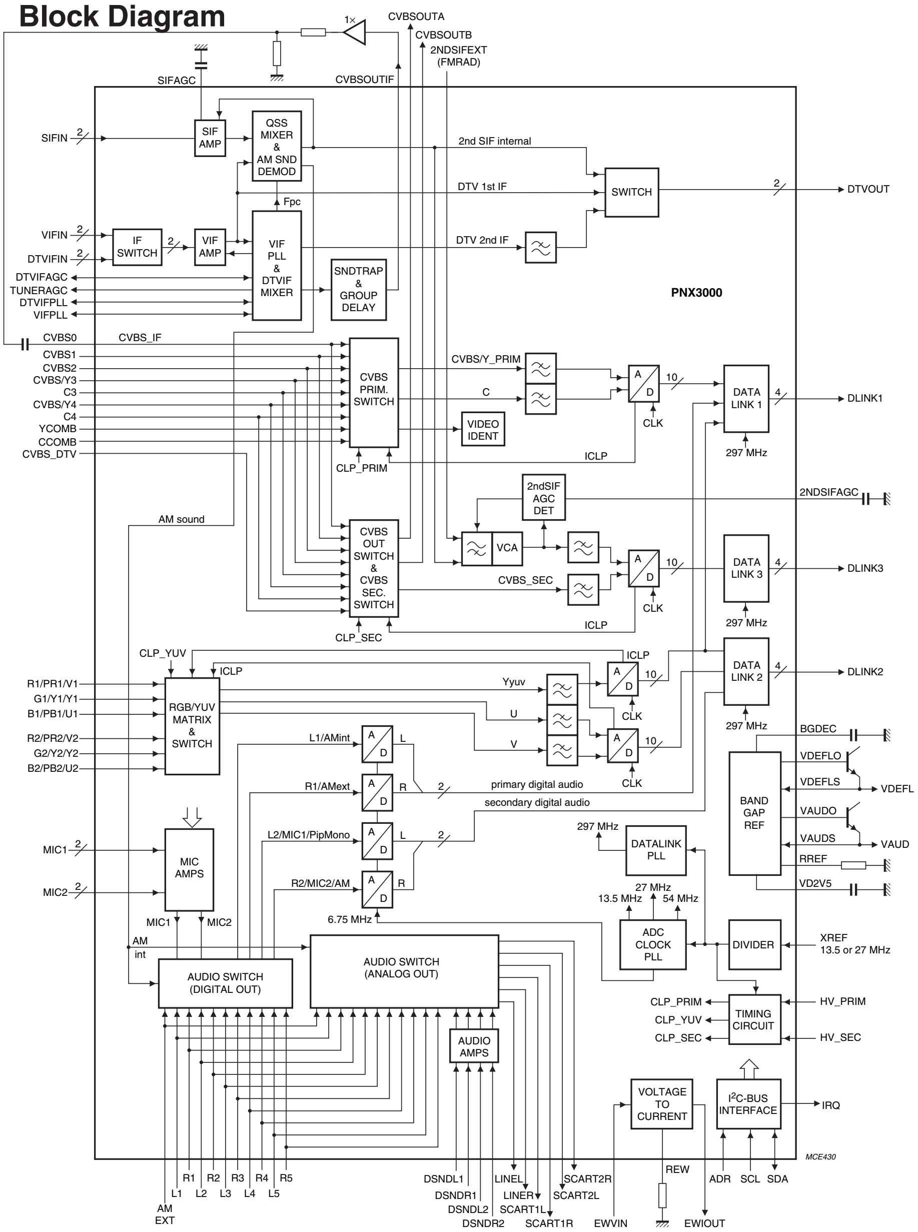
150506

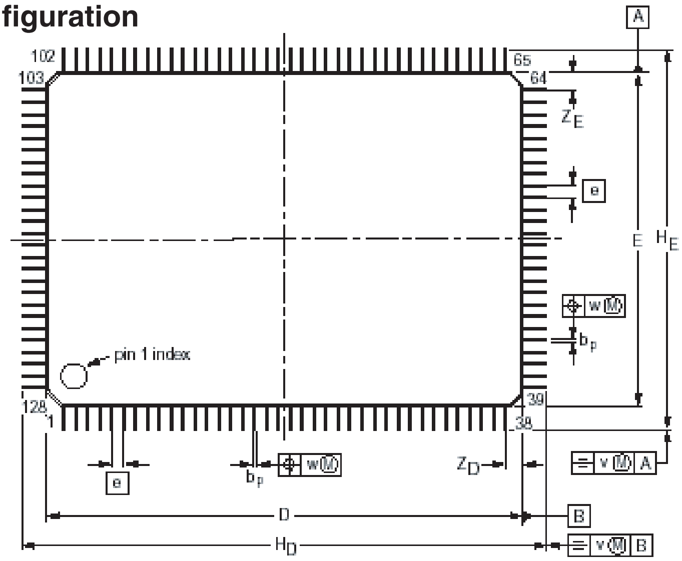
Figure 9-14 Internal block diagram

9.14.4 Diagram B4x, PNX3000HL (IC 7C00)

Block Diagram


CVBSOUTA
CVBSOUTB
2NDSIFEXT (FMRAD)
SIFAGC
CVBSOUTIF
SIFIN
SIF AMP
QSS MIXER & AM SND DEMOD
2nd SIF internal
SWITCH
DTVOUT
DTV 1st IF
Fpc
VIFIN
DTVIFIN
IF SWITCH
VIF AMP
VIF PLL & DTVIF MIXER
DTV 2nd IF
DTVIFAGC
TUNERAGC
DTVIFPLL
VIFPLL
SNDTRAP & GROUP DELAY
PNX3000
CVBS0
CVBS_IF
CVBS1
CVBS2
CVBS/Y3
C3
CVBS/Y4
C4
YCOMB
CCOMB
CVBS_DTV
CVBS PRIM. SWITCH
CVBS/Y_PRIM
C
VIDEO IDENT
CLP_PRIM
ICLP
A D
CLK
DATA LINK 1
DLINK1
297 MHz
2ndSIF AGC DET
2NDSIFAGC
AM sound
CVBS OUT SWITCH & CVBS SEC. SWITCH
VCA
CVBS_SEC
DATA LINK 3
DLINK3
CLP_SEC
CLP_YUV
DATA LINK 2
DLINK2
R1/PR1/V1
G1/Y1/Y1
B1/PB1/U1
R2/PR2/V2
G2/Y2/Y2
B2/PB2/U2
RGB/YUV MATRIX & SWITCH
Yyuv
U
V
L1/AMint
R1/AMext
L2/MIC1/PipMono
R2/MIC2/AM
L
R
primary digital audio
secondary digital audio
BGDEC
VDEFLO
VDEFLS
VDEFL
BAND GAP REF
VAUDO
VAUDS
VAUD
RREF
VD2V5
DATALINK PLL
MIC1
MIC2
MIC AMPS
6.75 MHz
27 MHz
13.5 MHz
54 MHz
ADC CLOCK PLL
DIVIDER
XREF 13.5 or 27 MHz
AM int
AUDIO SWITCH (DIGITAL OUT)
AUDIO SWITCH (ANALOG OUT)
AUDIO AMPS
CLP_PRIM
CLP_YUV
CLP_SEC
TIMING CIRCUIT
HV_PRIM
HV_SEC
VOLTAGE TO CURRENT
I²C-BUS INTERFACE
IRQ
MCE430
R1 R2 R3 R4 R5
L1 L2 L3 L4 L5
AM EXT
DSNDL1
DSNDR1
DSNDL2
DSNDR2
LINEL
LINER
SCART1L
SCART1R
SCART2R
SCART2L
REW
EWVIN
EWIOUT
ADR SCL SDA

Pin Configuration

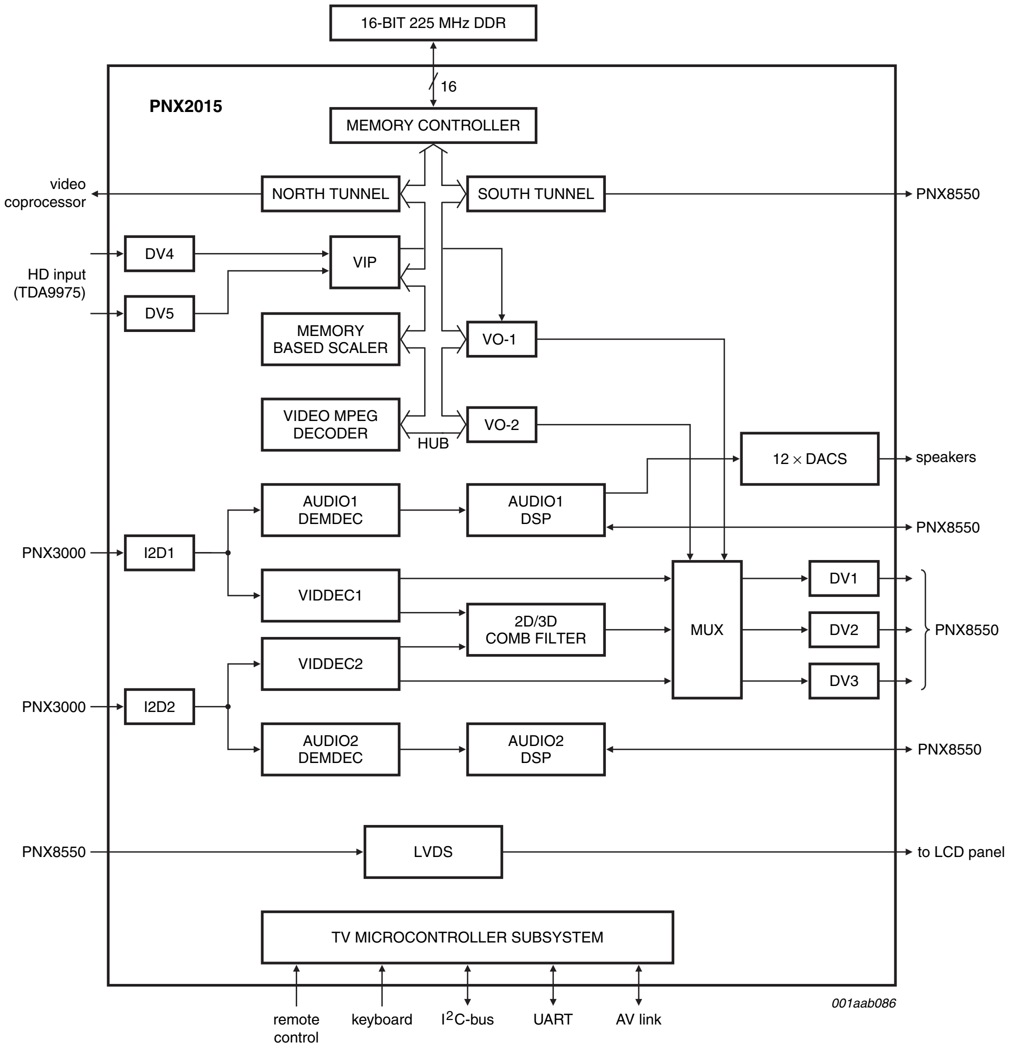

A
102
103
65
64
Z_E
e
E
H_E
w M
b_p
pin 1 index
128
1
39
38
e
b_p
w M
Z_D
v M A
D
B
H_D
v M B

F_15400_131.eps
240505

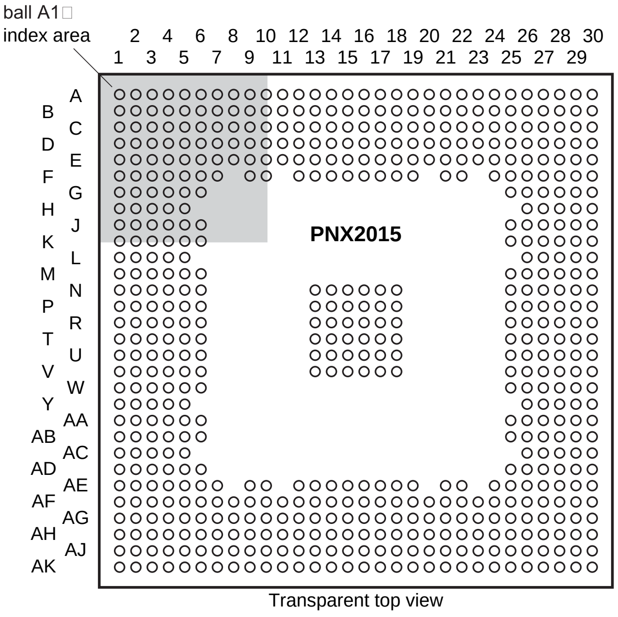
Figure 9-15 Internal block diagram and pin configuration

9.14.5 Diagram B4x, PNX2015E (IC 7J00)

Block Diagram


16-BIT 225 MHz DDR
16
PNX2015
MEMORY CONTROLLER
video coprocessor
NORTH TUNNEL
SOUTH TUNNEL
PNX8550
DV4
VIP
HD input (TDA9975)
DV5
MEMORY BASED SCALER
VO-1
VIDEO MPEG DECODER
HUB
VO-2
12 × DACS
speakers
AUDIO1 DEMDEC
AUDIO1 DSP
PNX8550
PNX3000
I2D1
VIDDEC1
MUX
DV1
2D/3D COMB FILTER
DV2
PNX8550
VIDDEC2
DV3
PNX3000
I2D2
AUDIO2 DEMDEC
AUDIO2 DSP
PNX8550
PNX8550
LVDS
to LCD panel
TV MICROCONTROLLER SUBSYSTEM
remote control
keyboard
I²C-bus
UART
AV link
001aab086

Pin Configuration


ball A1 index area
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29
A B C D E F G H J K L M N P R T U V W Y AA AB AC AD AE AF AG AH AJ AK
PNX2015
Transparent top view

F_15400_132.eps
240505

Figure 9-16 Internal block diagram and pin configuration

9.14.6 Diagram B6x, T6TE0TBG SPIDER (IC 7R00)

Pin Configuration

T6TE0TBG

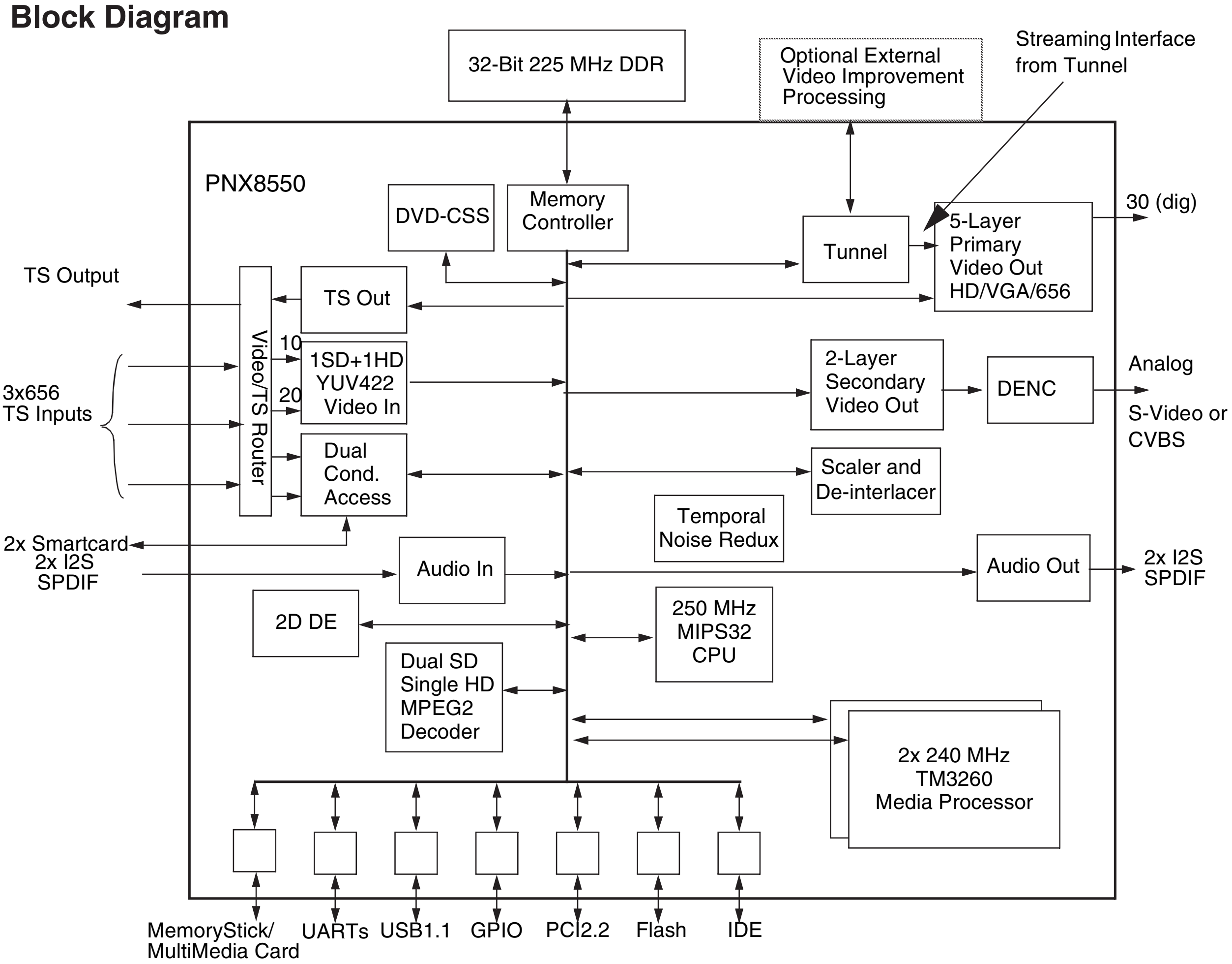
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	T	U	V	W	Y	AA	AB	AC
23	A23 RESET SMTTIF	B23 TST1 TLCHTHIF	C23 TST2 TLCHTHIF	D23 TCK SMTTIF	E23 SDA WBDIICODIF	F23 TRST TLCHTHIF	G23 TDO BT16RIF	H23 INT BT4RIF	J23 DDR_A3 Z7BSSTHC1	K23 DDR_A2 Z7BSSTHC1	L23 DDR_A1 Z7BSSTHC1	M23 DDR_A0 Z7BSSTHC1	N23 DDR_A11 Z7BSSTHC1	P23 DDR_A8 Z7BSSTHC1	R23 DDR_BA0 Z7BSSTHC1	T23 DDR_RASN Z7BSSTHC1	U23 DDR_CASN Z7BDSSTHC1	V23 DDR_CKE Z7BSSTHC1	W23 DDR_CKI Z7ISSTFC1	Y23 DDR_LDQS Z7BDSSTHC1	AA23 DDR_CKN Z7BSSTHC1		AC23 DDR_DQ1 Z7BDSSTHC1
22		B22 TST_OUT9 BT4RIF	C22 TST0 TLCHTHIF	D22 TST3 TLCHTHIF	E22 SCL WBDIICODIF	F22 TMS TLCHTHIF	G22 TDI TLCHTHIF			K22 DDR_A4 Z7BSSTHC1	L22 DDR_A5 Z7BSSTHC1	M22 DDR_A6 Z7BSSTHC1	N22 DDR_A7 Z7BSSTHC1	P22 DDR_A10 Z7BSSTHC1	R22 DDR_BA1 Z7BSSTHC1	T22 DDR_A9 Z7BSSTHC1		V22 DDR_WEN Z7BDSSTHC1		Y22 DDR_UDQS Z7BDSSTHC1	AA22 DDR_CK Z7BDSSTHC1	AB22 DDR_DQ0 Z7BDSSTHC1	AC22 DDR_DQ3 Z7BDSSTHC1
21	A21 TST_OUT6 BT4RIF	B21 TST_OUT7 BT4RIF	C21 TST_OUT8 BT4RIF																			AB21 DDR_DQ2 Z7BDSSTHC1	
20	A20 TST_OUT4 BT4RIF	B20 TST_OUT5 BT4RIF																V20 DDR_VREF3 Z7VRSSTC1				AB20 DDR_DQ4 Z7BDSSTHC1	AC20 DDR_DQ5 Z7BDSSTHC1
19	A19 TST_OUT2 BT4RIF	B19 TST_OUT3 BT4RIF																			AA19 DDR_VREF2 Z7VRSSTC1	AB19 DDR_DQ6 Z7BDSSTHC1	
18	A18 TST_OUT0 BT4RIF	B18 TST_OUT1 BT4RIF																				AB18 DDR_DQ7 Z7BDSSTHC1	AC18 DDR_DQ8 Z7BDSSTHC1
17	A17 TST_IN8 TLCHTHIF	B17 TST_IN9 TLCHTHIF																				AB17 DDR_DQ9 Z7BDSSTHC1	AC17 DDR_DQ10 Z7BDSSTHC1
16	A16 TST_IN7 TLCHTHIF																						
15	A15 TST_IN6 TLCHTHIF	B15 TST_IN5 TLCHTHIF																			AA15 DDR_VREF1 Z7VRSSTC1	AB15 DDR_DQ11 Z7BDSSTHC1	AC15 DDR_DQ12 Z7BDSSTHC1
14	A14 TST_IN4 TLCHTHIF	B14 TST_IN3 TLCHTHIF																				AB14 DDR_DQ13 Z7BDSSTHC1	AC14 DDR_DQ14 Z7BDSSTHC1
13	A13 TST_IN2 TLCHTHIF	B13 TST_IN1 TLCHTHIF																					AC13 DDR_DQ15 Z7BDSSTHC1
12	A12 TST_IN0 TLCHTHIF	B12 TUN_RX_DATA10 Z7ISSTFC1																					
11		B11 TUN_RX_DATA8 Z7ISSTFC1																				AB11 TST_IN10 TLCHTHIF	AC11 TST_IN11 TLCHTHIF
10	A10 TUN_RX_DATA15 Z7ISSTFC1	B10 TUN_RX_BUSY Z7BTSSTHC1																				AB10 TST_IN12 TLCHTHIF	AC10 TST_IN13 TLCHTHIF
9	A9 TUN_RX_DATA14 Z7ISSTFC1	B9 TUN_RX_DATA13 Z7ISSTFC1	C9 TUN_RX_VREF1 Z7VRSSTC1																			AB9 TST_IN14 TLCHTHIF	AC9 TST_IN15 TLCHTHIF
8		B8 TUN_RX_DATA12 Z7ISSTFC1																				AB8 BISTEN TLCHTHIF	AC8 DIODE_IN ZETMDL
7	A7 TUN_RX_CKAN Z7ISSTFC1	B7 TUN_RX_DATA11 Z7ISSTFC1																				AB7 TST_CLK0 TLCHTHIF	AC7 DIODE_OUT ZETMDR
6	A6 TUN_RX_CKAP Z7ISSTFC1	B6 TUN_RX_DATA3 Z7ISSTFC1		D6 TUN_RX_VREF2 Z7VRSSTC1																		AB6 TST_CLK1 TLCHTHIF	
5	A5 TUN_RX_DATA7 Z7ISSTFC1	B5 TUN_RX_DATA6 Z7ISSTFC1																					AC5 TST_CLK2 TLCHTHIF
4	A4 TUN_RX_DATA5 Z7ISSTFC1																					AB4 SCLOUTP_PLL ZEBDRV	AC4 SCLOUTN_PLL ZEBDRV
3	A3 TUN_RX_DATA4 Z7ISSTFC1	B3 TUN_RX_DATA9 Z7ISSTFC1										M3 TUN_TX_VREF1 Z7VRSSTC1									AA3 TST_IN16 TLCHTHIF		
2	A2 TUN_RX_DATA0 Z7ISSTFC1	B2 TUN_RX_DATA1 Z7ISSTFC1	C2 TUN_TX_DATA14 Z7BTSSTHC1	D2 TUN_TX_DATA8 Z7BTSSTHC1		F2 TUN_TX_DATA5 Z7BTSSTHC1	G2 TUN_TX_CKAP Z7BTSSTHC1		J2 TUN_TX_DATA7 Z7BTSSTHC1	K2 TUN_TX_DATA0 Z7BTSSTHC1			N2 TUN_TX_DATA4 Z7BTSSTHC1	P2 TST_PD TLCHTHIF	R2 TST_OUT18 BT4RIF	T2 TST_OUT16 BT4RIF	U2 TST_OUT14 BT4RIF	V2 TST_OUT12 BT4RIF	W2 TST_OUT10 BT4RIF	Y2 CLK TLCHTHIF	AA2 TST_IN19 TLCHTHIF	AB2 TST_IN17 TLCHTHIF	
1	A1 TUN_RX_DATA2 Z7ISSTFC1	B1 TUN_TX_DATA12 Z7BTSSTHC1	C1 TUN_TX_DATA15 Z7BTSSTHC1	D1 TUN_TX_DATA13 Z7BTSSTHC1	E1 TUN_TX_DATA10 Z7BTSSTHC1	F1 TUN_TX_DATA9 Z7BTSSTHC1	G1 TUN_TX_DATA11 Z7BTSSTHC1	H1 TUN_TX_CKAN Z7BTSSTHC1	J1 TUN_TX_DATA3 Z7BTSSTHC1	K1 TUN_TX_DATA6 Z7BTSSTHC1	L1 TUN_TX_DATA1 Z7BTSSTHC1	M1 TUN_TX_BUSY Z7ISSTFC1	N1 TUN_TX_DATA2 Z7BTSSTHC1	P1 TST_SCAN_TUN TLCHTHIF	R1 TST_OUT19 BT4RIF	T1 TST_OUT17 BT4RIF	U1 TST_OUT15 BT4RIF	V1 TST_OUT13 BT4RIF	W1 TST_OUT11 BT4RIF	Y1 TST_CLK3 TLCHTHIF	AA1 LFMONP_PLL ZEBDRV	AB1 LFMONN_PLL ZEBDRV	AC1 TST_IN18 TLCHTHIF
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	T	U	V	W	Y	AA	AB	AC

F_15710_164.eps
120506

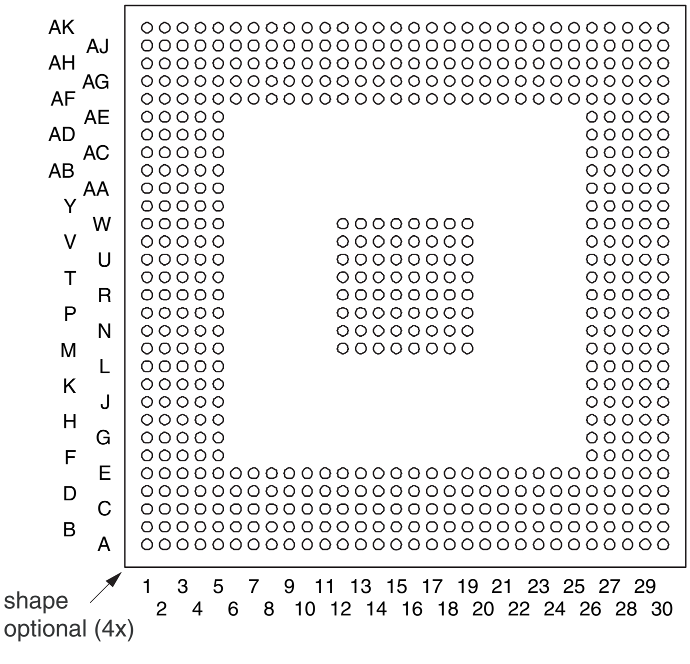
Figure 9-17 Pin configuration

9.14.7 Diagram B7x, PNX8550EH (IC 7V00)

Block Diagram


32-Bit 225 MHz DDR
Optional External Video Improvement Processing
Streaming Interface from Tunnel
PNX8550
DVD-CSS
Memory Controller
Tunnel
5-Layer Primary Video Out HD/VGA/656
30 (dig)
TS Output
TS Out
Video/TS Router
10
20
1SD+1HD YUV422 Video In
3x656 TS Inputs
2-Layer Secondary Video Out
DENC
Analog
S-Video or CVBS
Dual Cond. Access
Scaler and De-interlacer
Temporal Noise Redux
2x Smartcard
2x I2S
SPDIF
Audio In
Audio Out
2x I2S
SPDIF
2D DE
250 MHz MIPS32 CPU
Dual SD Single HD MPEG2 Decoder
2x 240 MHz TM3260 Media Processor
MemoryStick/ MultiMedia Card
UARTs
USB1.1
GPIO
PCI2.2
Flash
IDE

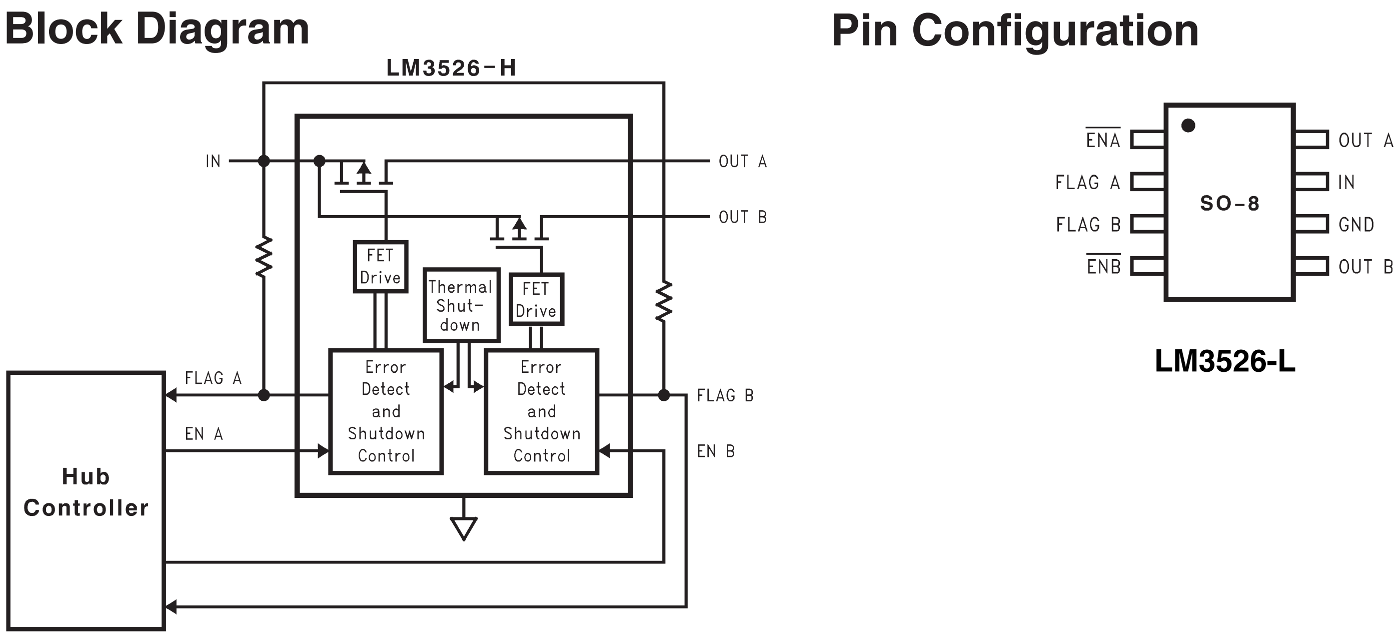
Pin Configuration


AK
AJ
AH
AG
AF
AE
AD
AC
AB
AA
Y
W
V
U
T
R
P
N
M
L
K
J
H
G
F
E
D
C
B
A
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
shape optional (4x)

E_14700_088.eps
250505

Figure 9-18 Internal block diagram and pin configuration

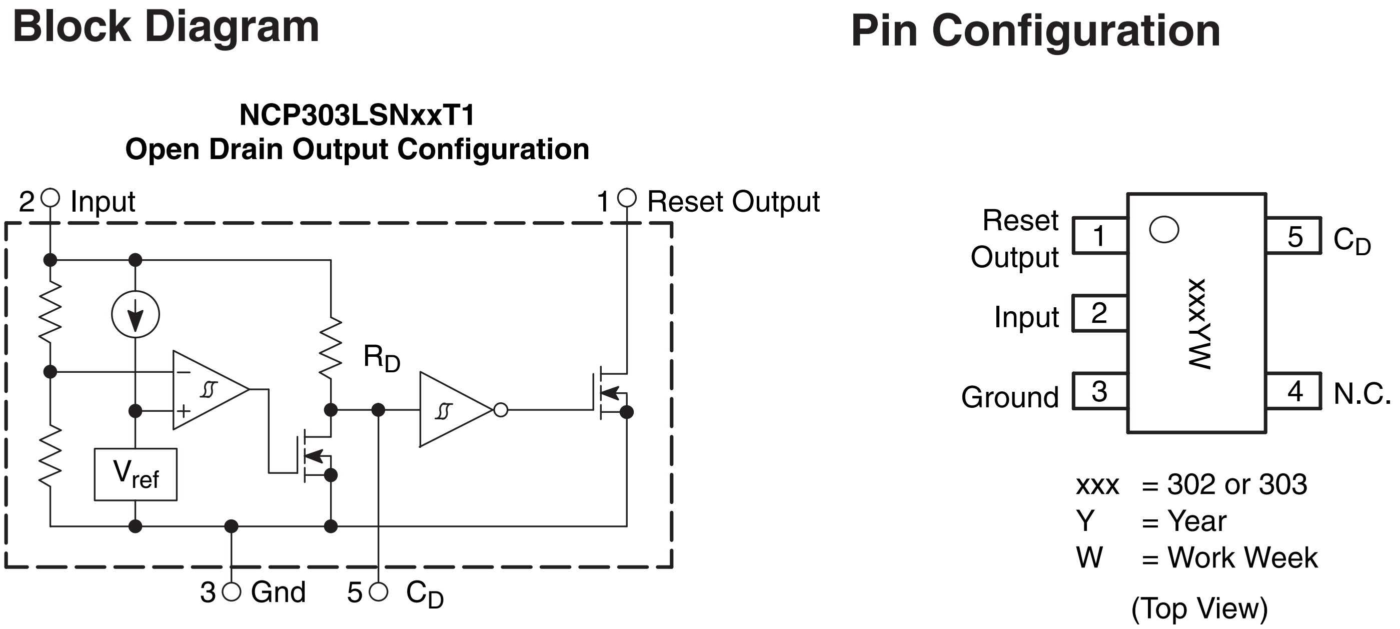
9.14.8 Diagram B7A, LM3526MX (IC 7Q01)


Block Diagram
LM3526-H
IN
OUT A
OUT B
FET Drive
Thermal Shut-down
FET Drive
Error Detect and Shutdown Control
Error Detect and Shutdown Control
FLAG A
EN A
FLAG B
EN B
Hub Controller
Pin Configuration
ENA
FLAG A
FLAG B
ENB
OUT A
IN
GND
OUT B
SO-8
LM3526-L

F_15400_134.eps
230905

Figure 9-19 Internal block diagram and pin configuration

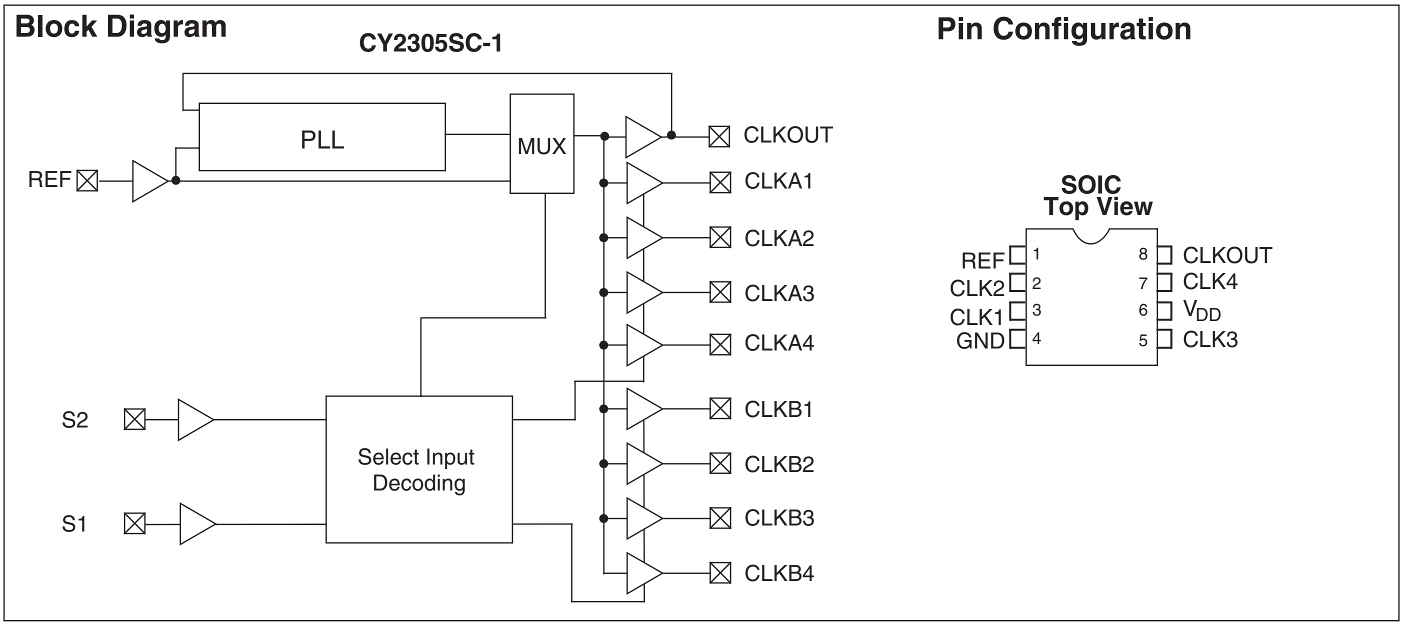
9.14.9 Diagram B8A, NCP303LSN (IC 7LB0 - 7LB4)


Block Diagram
NCP303LSNxxT1
Open Drain Output Configuration
2 Input
1 Reset Output
RD
Vref
3 Gnd
5 CD
Pin Configuration
Reset Output
Input
Ground
1
2
3
5
4
CD
N.C.
xxxYW
xxx = 302 or 303
Y = Year
W = Work Week
(Top View)

F_15400_133.eps
230905

Figure 9-20 Internal block diagram and pin configuration

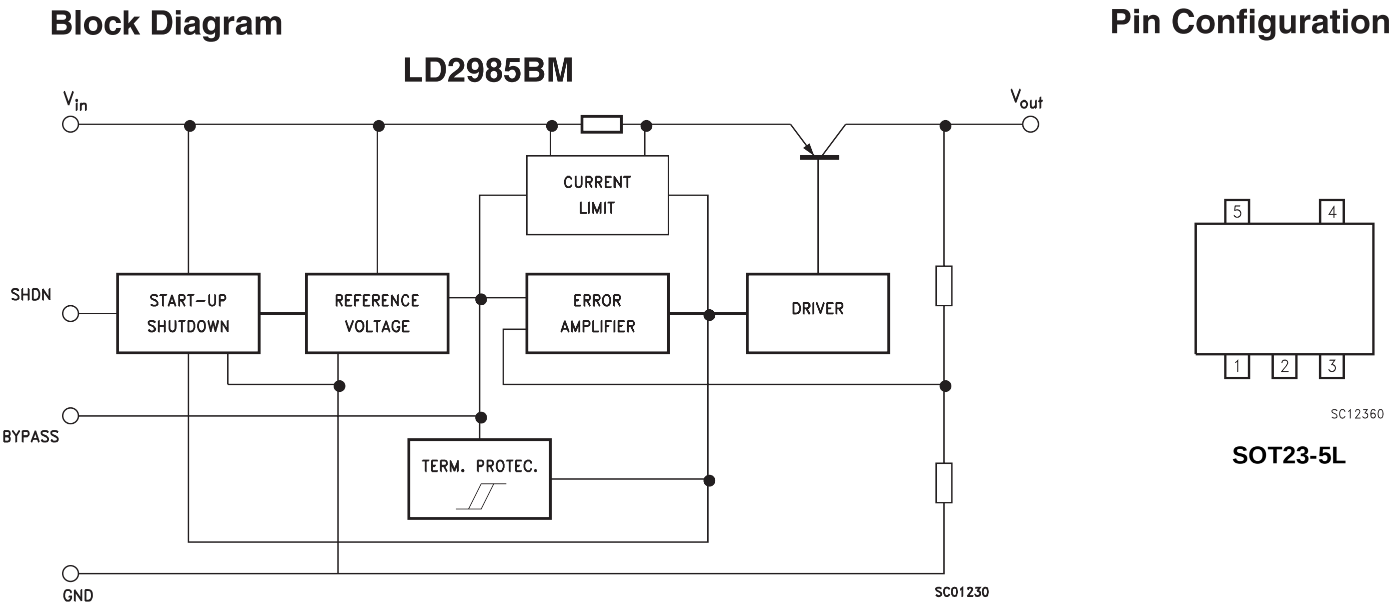
9.14.10 Diagram B8B, CY2305SC-1 (IC 7J08)


Block Diagram
CY2305SC-1
PLL
MUX
REF
CLKOUT
CLKA1
CLKA2
CLKA3
CLKA4
S2
S1
Select Input Decoding
CLKB1
CLKB2
CLKB3
CLKB4
Pin Configuration
SOIC
Top View
REF 1
CLK2 2
CLK1 3
GND 4
8 CLKOUT
7 CLK4
6 V_{DD}
5 CLK3

E_14620_146.eps
241004

Figure 9-21 Internal block diagram and pin configuration

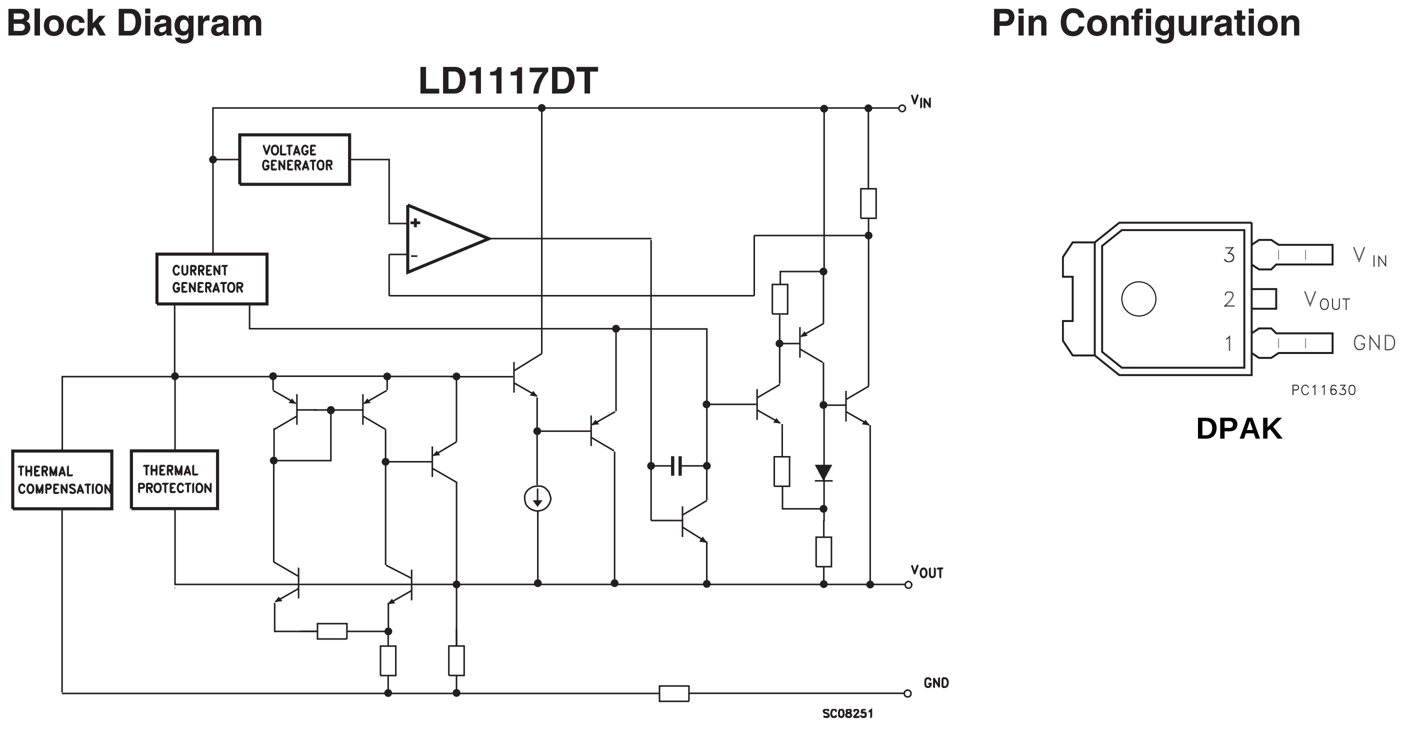
9.14.11 Diagram B9A, LD2985BM (IC 7G00)


Block Diagram
LD2985BM
V_{in}
V_{out}
CURRENT LIMIT
SHDN
START-UP SHUTDOWN
REFERENCE VOLTAGE
ERROR AMPLIFIER
DRIVER
BYPASS
TERM. PROTEC.
GND
SC01230
Pin Configuration
5
4
1
2
3
SC12360
SOT23-5L

F_15710_165.eps
230905

Figure 9-22 Internal block diagram and pin configuration

9.14.12 Diagram B9A, LD1117DT (IC7G01)



Block Diagram

Pin Configuration

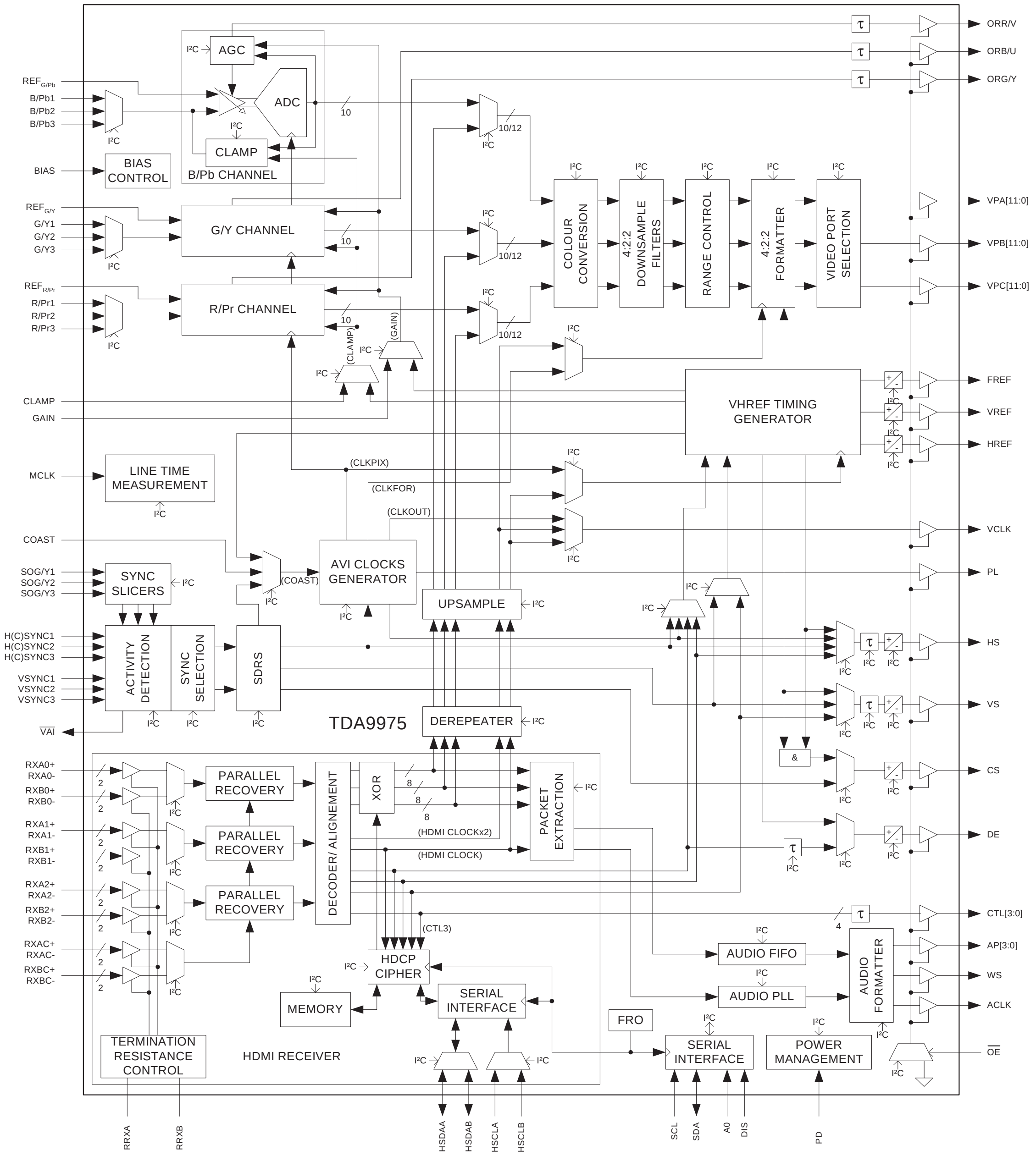
LD1117DT
VIN
VOLTAGE GENERATOR
CURRENT GENERATOR
+
-
THERMAL COMPENSATION
THERMAL PROTECTION
VOUT
GND
SC08251
3
V IN
2
VOUT
1
GND
PC11630
DPAK

F_15710_166.eps
230905

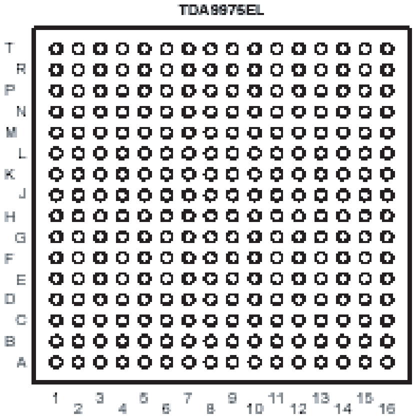
Figure 9-23 Internal block diagram and pin configuration

9.14.13 Diagram B11B & B11C, TDA9975EL (IC 7B11)

Block Diagram


REFG/Pb
B/Pb1
B/Pb2
B/Pb3
BIAS
REFG/Y
G/Y1
G/Y2
G/Y3
REFR/Pr
R/Pr1
R/Pr2
R/Pr3
CLAMP
GAIN
MCLK
COAST
SOG/Y1
SOG/Y2
SOG/Y3
H(C)SYNC1
H(C)SYNC2
H(C)SYNC3
VSYNC1
VSYNC2
VSYNC3
VAI
RXA0+
RXA0-
RXB0+
RXB0-
RXA1+
RXA1-
RXB1+
RXB1-
RXA2+
RXA2-
RXB2+
RXB2-
RXAC+
RXAC-
RXBC+
RXBC-
AGC
ADC
CLAMP
B/Pb CHANNEL
BIAS CONTROL
G/Y CHANNEL
R/Pr CHANNEL
(CLAMP)
(GAIN)
I²C
10
10/12
COLOUR CONVERSION
4:2:2 DOWNSAMPLE FILTERS
RANGE CONTROL
4:2:2 FORMATTER
VIDEO PORT SELECTION
VHREF TIMING GENERATOR
LINE TIME MEASUREMENT
(CLKPIX)
(CLKFOR)
(CLKOUT)
SYNC SLICERS
(COAST)
AVI CLOCKS GENERATOR
UPSAMPLE
ACTIVITY DETECTION
SYNC SELECTION
SDRS
TDA9975
DEREPEATER
PARALLEL RECOVERY
DECODER/ ALIGNEMENT
XOR
8
PACKET EXTRACTION
(HDMI CLOCKx2)
(HDMI CLOCK)
(CTL3)
HDCP CIPHER
MEMORY
SERIAL INTERFACE
FRO
&
τ
4
AUDIO FIFO
AUDIO PLL
AUDIO FORMATTER
SERIAL INTERFACE
POWER MANAGEMENT
TERMINATION RESISTANCE CONTROL
HDMI RECEIVER
ORR/V
ORB/U
ORG/Y
VPA[11:0]
VPB[11:0]
VPC[11:0]
FREF
VREF
HREF
VCLK
PL
HS
VS
CS
DE
CTL[3:0]
AP[3:0]
WS
ACLK
OE
RRXA
RRXB
HSDAA
HSDAB
HSCLA
HSCLB
SCL
SDA
A0
DIS
PD

Pin Configuration


TDA9975EL
T
R
P
N
M
L
K
J
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

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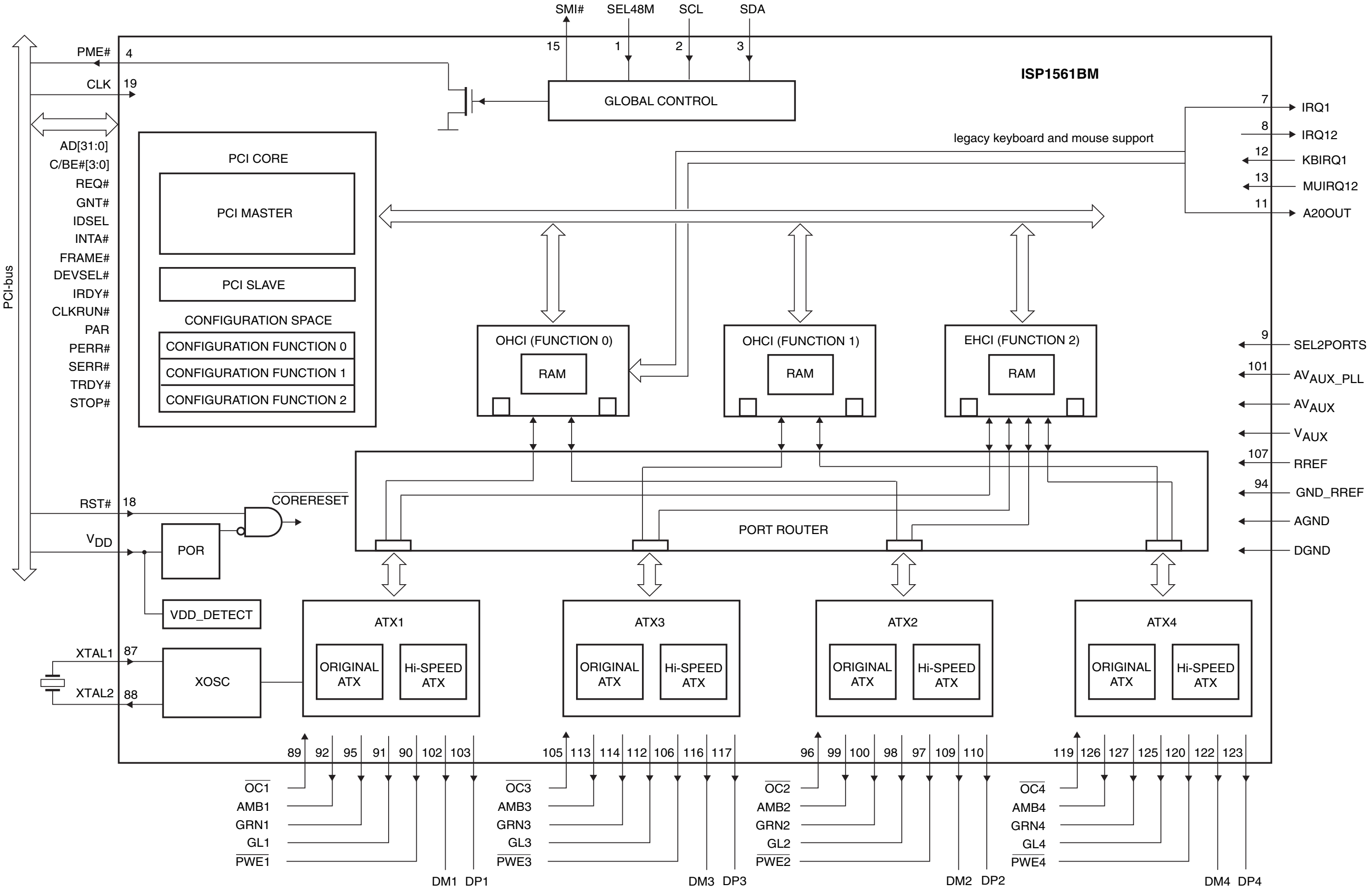
240505

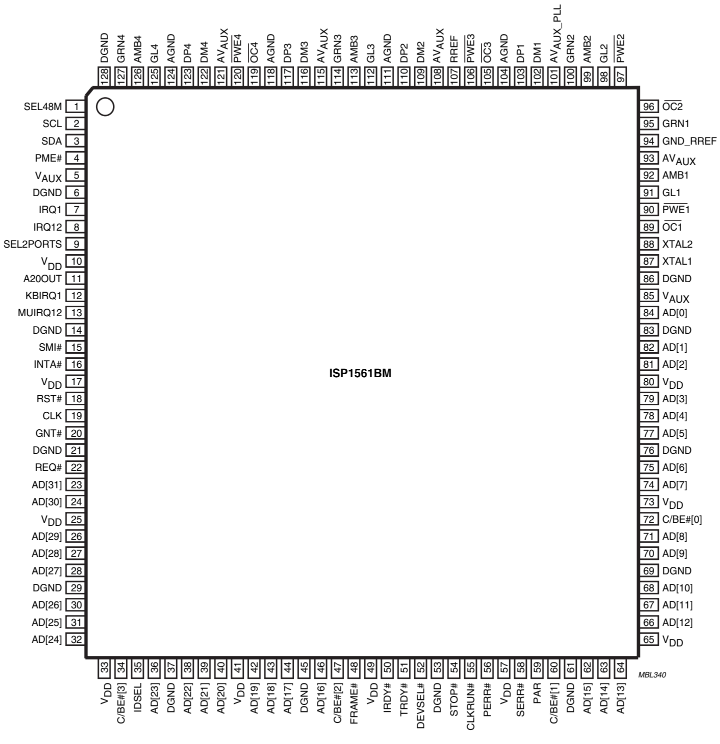
Figure 9-24 Internal block diagram and pin configuration

9.14.14 Diagram B13A, ISP1561BM (IC 7N00)

Block Diagram


SMI#
SEL48M
SCL
SDA
15
1
2
3
ISP1561BM
PME#
4
CLK
19
GLOBAL CONTROL
AD[31:0]
C/BE#[3:0]
REQ#
GNT#
IDSEL
INTA#
FRAME#
DEVSEL#
IRDY#
CLKRUN#
PAR
PERR#
SERR#
TRDY#
STOP#
PCI-bus
PCI CORE
PCI MASTER
PCI SLAVE
CONFIGURATION SPACE
CONFIGURATION FUNCTION 0
CONFIGURATION FUNCTION 1
CONFIGURATION FUNCTION 2
legacy keyboard and mouse support
7 IRQ1
8 IRQ12
12 KBIRQ1
13 MUIRQ12
11 A20OUT
OHCI (FUNCTION 0)
RAM
OHCI (FUNCTION 1)
RAM
EHCI (FUNCTION 2)
RAM
9 SEL2PORTS
101 AVAUX_PLL
AVAUX
VAUX
107 RREF
94 GND_RREF
AGND
DGND
RST#
18
CORERESET
VDD
POR
PORT ROUTER
VDD_DETECT
XTAL1
87
XTAL2
88
XOSC
ATX1
ORIGINAL ATX
Hi-SPEED ATX
ATX3
ORIGINAL ATX
Hi-SPEED ATX
ATX2
ORIGINAL ATX
Hi-SPEED ATX
ATX4
ORIGINAL ATX
Hi-SPEED ATX
89 92 95 91 90 102 103
105 113 114 112 106 116 117
96 99 100 98 97 109 110
119 126 127 125 120 122 123
OC1
AMB1
GRN1
GL1
PWE1
DM1 DP1
OC3
AMB3
GRN3
GL3
PWE3
DM3 DP3
OC2
AMB2
GRN2
GL2
PWE2
DM2 DP2
OC4
AMB4
GRN4
GL4
PWE4
DM4 DP4

Pin Configuration


ISP1561BM
1 SEL48M
2 SCL
3 SDA
4 PME#
5 VAUX
6 DGND
7 IRQ1
8 IRQ12
9 SEL2PORTS
10 VDD
11 A20OUT
12 KBIRQ1
13 MUIRQ12
14 DGND
15 SMI#
16 INTA#
17 VDD
18 RST#
19 CLK
20 GNT#
21 DGND
22 REQ#
23 AD[31]
24 AD[30]
25 VDD
26 AD[29]
27 AD[28]
28 AD[27]
29 DGND
30 AD[26]
31 AD[25]
32 AD[24]
33 VDD
34 C/BE#[3]
35 IDSEL
36 AD[23]
37 DGND
38 AD[22]
39 AD[21]
40 AD[20]
41 VDD
42 AD[19]
43 AD[18]
44 AD[17]
45 DGND
46 AD[16]
47 C/BE#[2]
48 FRAME#
49 VDD
50 IRDY#
51 TRDY#
52 DEVSEL#
53 DGND
54 STOP#
55 CLKRUN#
56 PERR#
57 VDD
58 SERR#
59 PAR
60 C/BE#[1]
61 DGND
62 AD[15]
63 AD[14]
64 AD[13]
65 VDD
66 AD[12]
67 AD[11]
68 AD[10]
69 DGND
70 AD[9]
71 AD[8]
72 C/BE#[0]
73 VDD
74 AD[7]
75 AD[6]
76 DGND
77 AD[5]
78 AD[4]
79 AD[3]
80 VDD
81 AD[2]
82 AD[1]
83 DGND
84 AD[0]
85 VAUX
86 DGND
87 XTAL1
88 XTAL2
89 OC1
90 PWE1
91 GL1
92 AMB1
93 AVAUX
94 GND_RREF
95 GRN1
96 OC2
97 PWE2
98 GL2
99 AMB2
100 GRN2
101 AVAUX_PLL
102 DM1
103 DP1
104 AGND
105 OC3
106 PWE3
107 RREF
108 AVAUX
109 DM2
110 DP2
111 AGND
112 GL3
113 AMB3
114 GRN3
115 AVAUX
116 DM3
117 DP3
118 AGND
119 OC4
120 PWE4
121 AVAUX
122 DM4
123 DP4
124 AGND
125 GL4
126 AMB4
127 GRN4
128 DGND
MBL340

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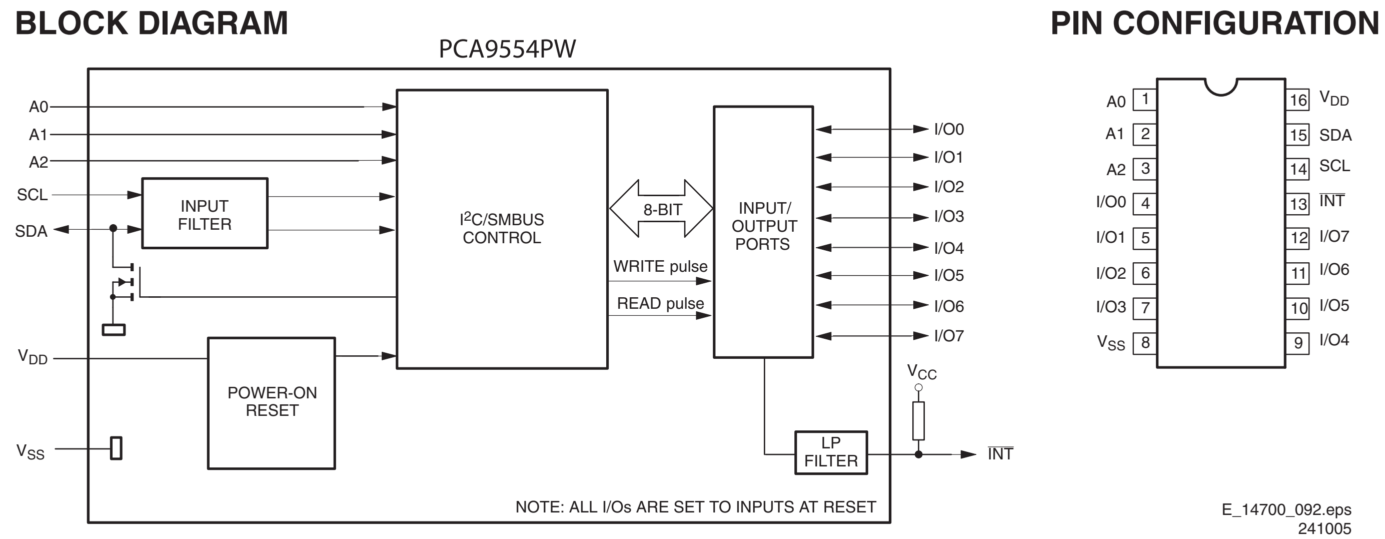
240505

Figure 9-25 Internal block diagram and pin configuration

9.14.15 Diagram B14B, PCA9554PW (IC 7I55)


BLOCK DIAGRAM
PCA9554PW
A0
A1
A2
SCL
SDA
INPUT FILTER
I²C/SMBUS CONTROL
8-BIT
INPUT/ OUTPUT PORTS
WRITE pulse
READ pulse
I/O0
I/O1
I/O2
I/O3
I/O4
I/O5
I/O6
I/O7
VDD
POWER-ON RESET
VSS
VCC
LP FILTER
INT
NOTE: ALL I/Os ARE SET TO INPUTS AT RESET
PIN CONFIGURATION
A0 1
A1 2
A2 3
I/O0 4
I/O1 5
I/O2 6
I/O3 7
VSS 8
16 VDD
15 SDA
14 SCL
13 INT
12 I/O7
11 I/O6
10 I/O5
9 I/O4

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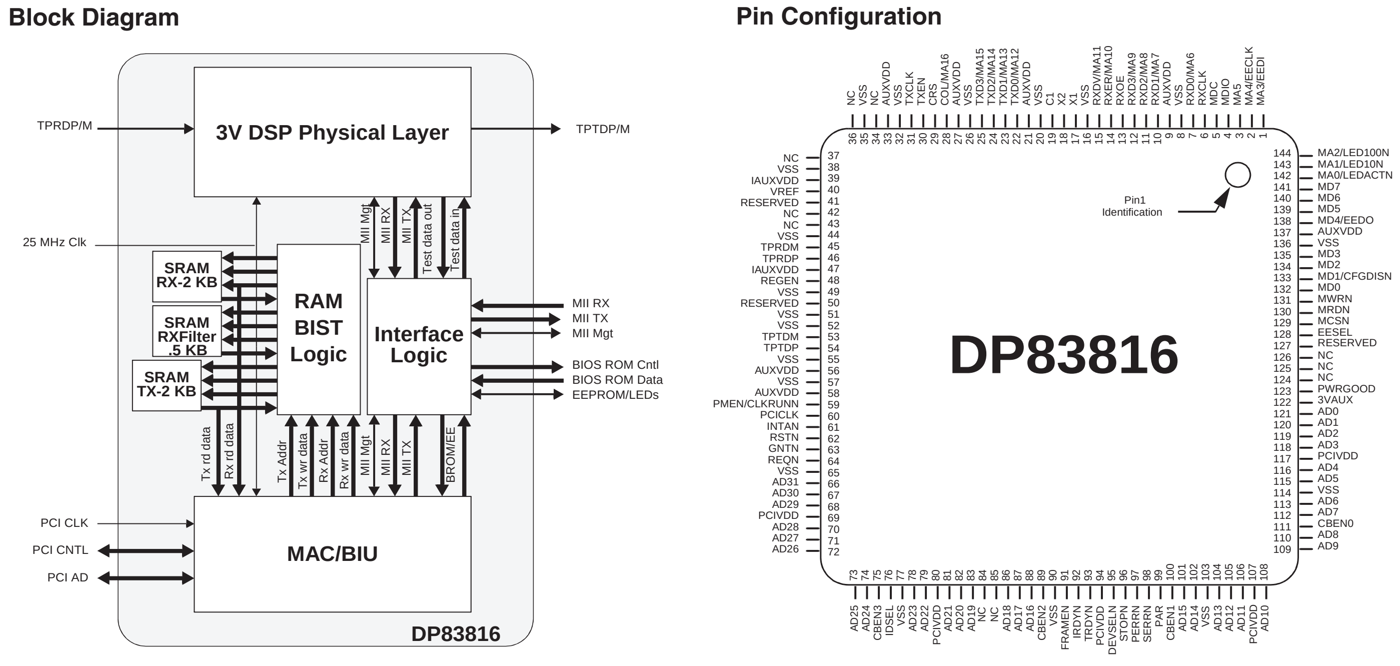
241005

Figure 9-26 Internal block diagram and pin configuration

9.14.16 Diagram B15, DP83816AVNG (7O00)


Block Diagram
TPRDP/M
3V DSP Physical Layer
TPTDP/M
25 MHz Clk
SRAM RX-2 KB
SRAM RXFilter .5 KB
SRAM TX-2 KB
RAM BIST Logic
Interface Logic
MII Mgt
MII RX
MII TX
Test data out
Test data in
MII RX
MII TX
MII Mgt
BIOS ROM Cntl
BIOS ROM Data
EEPROM/LEDs
Tx rd data
Rx rd data
Tx Addr
Tx wr data
Rx Addr
Rx wr data
MII Mgt
MII RX
MII TX
BROM/EE
PCI CLK
PCI CNTL
PCI AD
MAC/BIU
DP83816
Pin Configuration
NC
VSS
NC
AUXVDD
VSS
TXCLK
TXEN
CRS
COL/MA16
AUXVDD
VSS
TXD3/MA15
TXD2/MA14
TXD1/MA13
TXD0/MA12
AUXVDD
VSS
C1
X2
X1
VSS
RXDV/MA11
RXER/MA10
RXOE
RXD3/MA9
RXD2/MA8
RXD1/MA7
AUXVDD
VSS
RXD0/MA6
RXCLK
MDC
MDIO
MA5
MA4/EECLK
MA3/EEDI
Pin1 Identification
NC
VSS
IAUXVDD
VREF
RESERVED
NC
NC
VSS
TPRDM
TPRDP
IAUXVDD
REGEN
VSS
RESERVED
VSS
VSS
TPTDM
TPTDP
VSS
AUXVDD
VSS
AUXVDD
PMEN/CLKRUNN
PCICLK
INTAN
RSTN
GNTN
REQN
VSS
AD31
AD30
AD29
PCIVDD
AD28
AD27
AD26
DP83816
MA2/LED100N
MA1/LED10N
MA0/LEDACTN
MD7
MD6
MD5
MD4/EEDO
AUXVDD
VSS
MD3
MD2
MD1/CFGDISN
MD0
MWRN
MRDN
MCSN
EESEL
RESERVED
NC
NC
NC
PWRGOOD
3VAUX
AD0
AD1
AD2
AD3
PCIVDD
AD4
AD5
VSS
AD6
AD7
CBEN0
AD8
AD9
AD25
AD24
CBEN3
IDSEL
VSS
AD23
AD22
PCIVDD
AD21
AD20
AD19
NC
NC
AD18
AD17
AD16
CBEN2
VSS
FRAMEN
IRDYN
TRDYN
PCIVDD
DEVSELN
STOPN
PERRN
SERRN
PAR
CBEN1
AD15
AD14
VSS
AD13
AD12
AD11
PCIVDD
AD10

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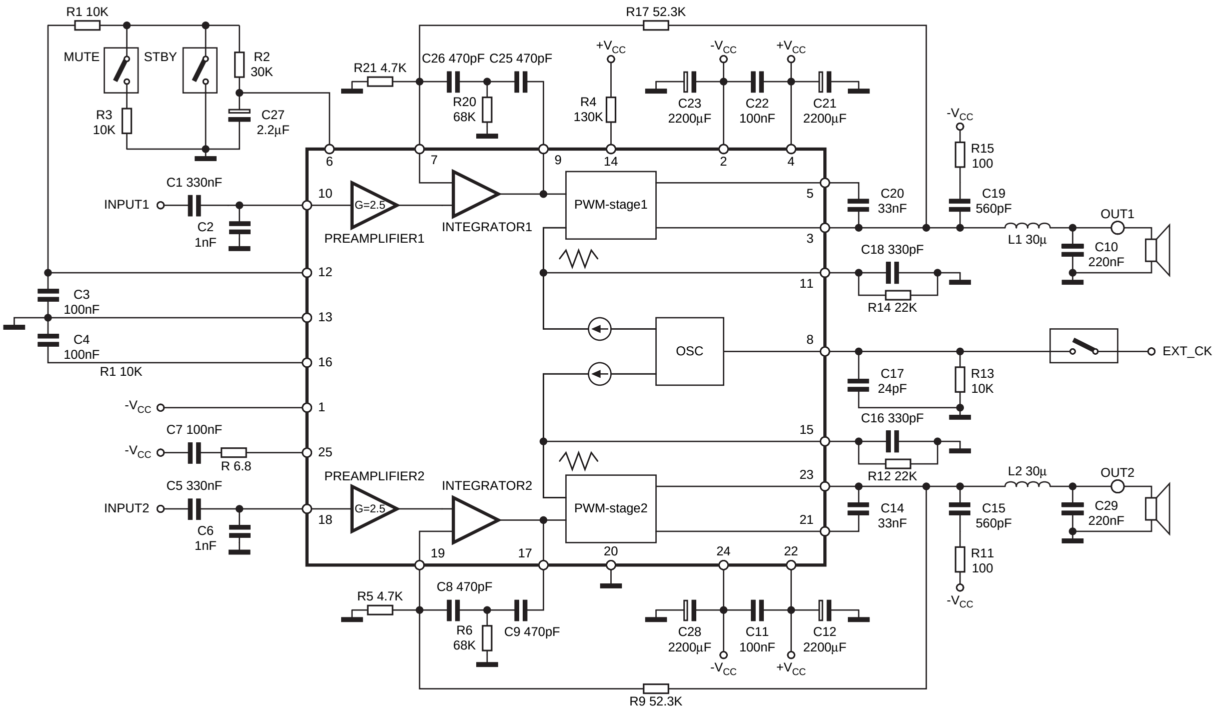
230905

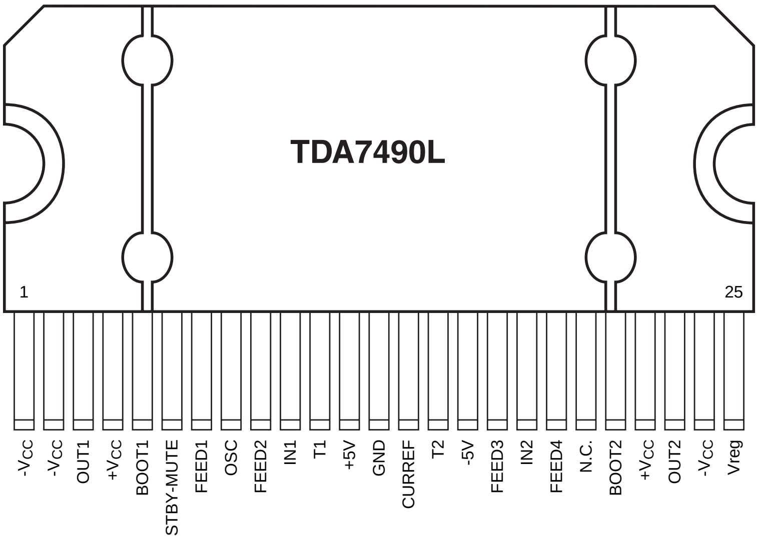
Figure 9-27 Internal block diagram and pin configuration

9.14.17 Diagram SA3, TDA7490LG (7700)

Block Diagram


R1 10K
MUTE
STBY
R2
30K
R3
10K
C27
2.2µF
R21 4.7K
C26 470pF
C25 470pF
R20
68K
R17 52.3K
+VCC
R4
130K
-VCC
+VCC
C23
2200µF
C22
100nF
C21
2200µF
-VCC
R15
100
C1 330nF
INPUT1
C2
1nF
G=2.5
PREAMPLIFIER1
INTEGRATOR1
PWM-stage1
C20
33nF
C19
560pF
OUT1
L1 30µ
C10
220nF
C18 330pF
R14 22K
C3
100nF
C4
100nF
R1 10K
OSC
EXT_CK
C17
24pF
R13
10K
C16 330pF
-VCC
C7 100nF
R 6.8
C5 330nF
INPUT2
C6
1nF
PREAMPLIFIER2
INTEGRATOR2
PWM-stage2
R12 22K
L2 30µ
OUT2
C14
33nF
C15
560pF
C29
220nF
R11
100
R5 4.7K
C8 470pF
R6
68K
C9 470pF
C28
2200µF
C11
100nF
C12
2200µF
R9 52.3K
6
7
9
14
2
4
10
5
3
12
11
13
8
16
1
25
15
23
18
21
19
17
20
24
22

Pin Configuration (Top View)


TDA7490L
1
25
-VCC
-VCC
OUT1
+VCC
BOOT1
STBY-MUTE
FEED1
OSC
FEED2
IN1
T1
+5V
GND
CURREF
T2
-5V
FEED3
IN2
FEED4
N.C.
BOOT2
+VCC
OUT2
-VCC
Vreg

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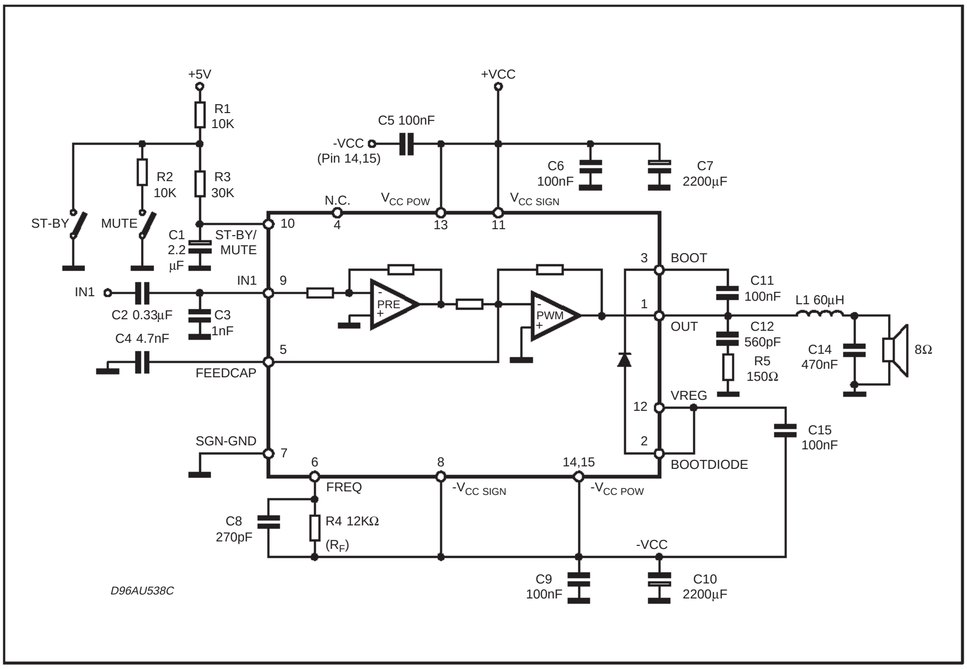
230905

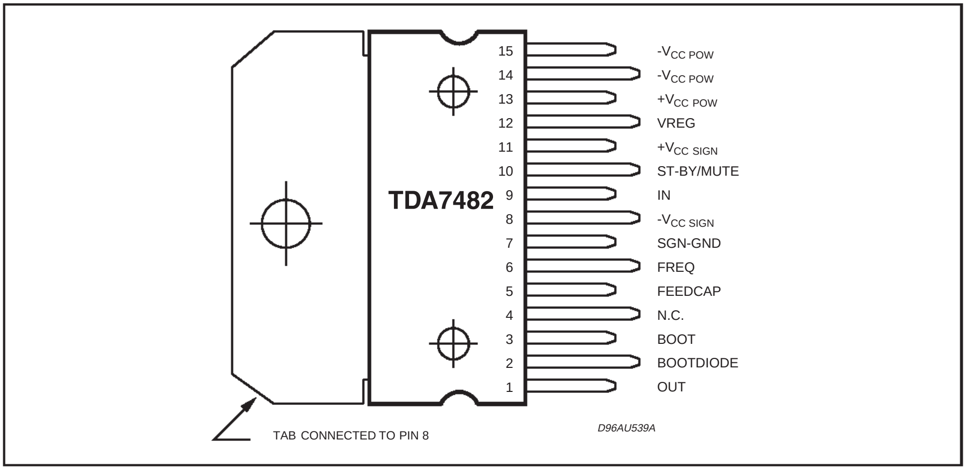
Figure 9-28 Internal block diagram and pin configuration

9.14.18 Diagram SA3, TDA7482 (7702)

Block Diagram


+5V
+VCC
R1 10K
C5 100nF
-VCC (Pin 14,15)
C6 100nF
C7 2200µF
R2 10K
R3 30K
N.C.
VCC POW
VCC SIGN
ST-BY
MUTE
C1 2.2 µF
ST-BY/ MUTE
10
4
13
11
3
BOOT
C11 100nF
IN1
IN1
9
PRE
PWM
1
OUT
L1 60µH
C2 0.33µF
C3 1nF
C12 560pF
C14 470nF
8Ω
C4 4.7nF
5
FEEDCAP
R5 150Ω
12
VREG
C15 100nF
SGN-GND
7
2
BOOTDIODE
6
8
14,15
FREQ
-VCC SIGN
-VCC POW
C8 270pF
R4 12KΩ (RF)
-VCC
C9 100nF
C10 2200µF
D96AU538C

Pin Configuration (Top View)


TDA7482
15 -VCC POW
14 -VCC POW
13 +VCC POW
12 VREG
11 +VCC SIGN
10 ST-BY/MUTE
9 IN
8 -VCC SIGN
7 SGN-GND
6 FREQ
5 FEEDCAP
4 N.C.
3 BOOT
2 BOOTDIODE
1 OUT
TAB CONNECTED TO PIN 8
D96AU539A

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230905

Figure 9-29 Internal block diagram and pin configuration

10. Spare Parts List

Set Level per Model Number (CTN)

32PF9531/10

0802	One-ZIP file	Download from website.
1004⚠	9322 241 46682	LCD LC320WX2
1102	3104 328 46821	Service SSB
1012	3139 267 23521	Keyb. Control Assy [E]
1017	3104 328 40891	Bottom I/O Assy [BE]
1112	3139 268 02531	LED Assy [J] 32 & 37 Bk
1115	3104 328 46731	Side I/O assy [D]
8101	3104 311 10171	Cable 3p/1000/3p
8103	3104 311 06091	Cable 10p/680/10p
8136	3104 311 04422	Cable 11p/1050/11p
8121⚠	3104 311 06841	Cable 6p/820/6p
8121⚠	3104 311 10901	Cable 6p/1K1/6p
8121	3104 311 11931	Cable 6p/1100/6p Wh
8235	3104 311 08801	Flex foil 40p/140/40p
8735	3104 311 11271	Cable 2p3/560/2X Bk
8736	3104 311 11201	Cable 2p3/820/2X Wh
8736	3104 311 11741	Cable 2p3/680/2xposiWh
8136	3104 311 10541	Cable 11p/1100/11p Wh
8142	3104 311 09051	Cable 5p/820/5p Wh
8146⚠	3104 311 07951	Cable 11p/680/11p
8150	3104 311 11681	Cable 41p/320/30p
8201	8204 000 79731	Cable USBA/1m1/USBA
8302	3104 311 11721	Cable 7p/560/7p Wh
8305	3104 311 08401	Cable 3p/280/3p
8306	3104 311 11731	Cable 2p3/180/2p3
8310	3104 311 10284	Cable 2p3/280/2p3
8364	3104 311 11021	Cable 9p/400/9p Wh
8408	3104 311 06951	Cable 2p3/180/2p

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5212	2422 264 00565	Loudsp. 4Ω 15W TW
5213	2422 264 00565	Loudsp. 4Ω 15W TW
5222	2422 264 00572	Loudsp. 4Ω 15W Squa.
5223	2422 264 00572	Loudsp. 4Ω 15W Squa.

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0802	One-ZIP file	Download from website.
1004⚠	9322 241 46682	LCD LC320WX2
1012	3139 267 23521	Keyb. Control Assy [E]
1102	3104 328 46811	Service SSB 4669X 32"
1112	3139 268 02531	LED Assy [J] 32 & 37 Bk
1115	3104 328 46731	Side I/O assy [D]
8101	3104 311 10171	Cable 3p/1000/3p
8103	3104 311 06091	Cable 10p/680/10p
8121⚠	3104 311 06841	Cable 6p/820/6p
8121⚠	3104 311 10901	Cable 6p/1K1/6p
8121	3104 311 11931	Cable 6p/1100/6p Wh
8136	3104 311 04422	Cable 11p/1050/11p
8136	3104 311 10541	Cable 11p/1100/11p Wh
8142	3104 311 09051	Cable 5p/820/5p Wh
8146	3104 311 07951	Cable 11p/680/11p
8150	3104 311 11681	Cable 41p/320/30p
8201	2422 076 00596	Cable USB-A 4p
8302	3104 311 02341	Cable 7p/680/7p
8305⚠	3104 311 00891	Cable 3p/220/3p
8306	3104 311 08361	Cable 2p3/400/2p3
8310	3104 311 10284	Cable 2p3/280/2p3
8364	3104 311 06061	Cable 9p/180/9p
8408⚠	3104 311 07691	Cable 2p3/280/Inlet
8735	3104 311 11271	Cable 2p3/560/2X Bk
8736	3104 311 11201	Cable 2p3/820/2X Wh
8736	3104 311 11741	Cable 2p3/680/2xposiWh

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5212	2422 264 00565	Loudsp. 4Ω 15W TW
5213	2422 264 00565	Loudsp. 4Ω 15W TW
5222	2422 264 00572	Loudsp. 4Ω 15W Squa.
5223	2422 264 00572	Loudsp. 4Ω 15W Squa.

32PF9731D/10

0802	One-ZIP file	Download from website.
1004⚠	9322 241 46682	LCD LC320WX2
1010	3104 328 41771	Control Assy [E]
1016	3104 328 28893	Side I/O Assy [D]
1017	3104 328 40891	Bottom I/O Assy [BE]
1102	3104 328 46801	Service SSB
1110	3104 328 45122	Keyboard Cntrl Assy [E]
1112	3104 328 45811	LED Panel [J]
1115	3104 328 40612	Side I/O Assy [D]
1115	3104 328 44121	Side I/O [D]
1131	2722 171 00374	Ambil. Lamp Assy [AL]
1132	2722 171 00375	Ambil. Lamp Assy [AL]
1164	3104 328 48321	Ambil. Inv. single [AL]
1166	3104 328 48321	Ambil. Inv. single [AL]
8101	3104 311 05181	Cable 12p/315/12p
8103	3104 311 06691	Cable 10p/340/10p
8121	3104 311 05161	Cable 8p/600/8p
8136⚠	3104 311 07001	Cable 11p/400/11p
8142	3104 311 09051	Cable 5p/820/5p Wh
8146	3104 311 07001	Cable 11p/400/11p
8150	3104 311 11691	Cable 41p/260/30p
8199⚠	3104 311 10931	Wire ring /220/ring
8201	2422 076 00596	Cable USB-A 4p
8235	3104 311 08801	Flex foil 40p/140/40p
8302	3104 311 07801	Cable 7P 400mm
8302	3104 311 08921	Cable 7p/400/7p Wh
8305	3104 311 05291	Cable 3p/400/3p
8305	3104 311 08421	Cable 3p/400/3p
8306	3104 311 08361	Cable 2p3/400/2p3
8310	3104 311 11671	Cable 2p3/560/2p3
8364	3104 311 06061	Cable 9p/180/9p
8408⚠	3104 311 08071	Cable 2P3/140
8508	3104 311 06841	Cable 6p/820/6p
8549	3104 311 11351	Cable 4p/820/4p Bk
8559	3104 311 11161	Cable 5p/340/5p Bk
8608	3104 311 10372	Cable 4p6/180/4p
8735	3104 311 01511	Cable 2p3/720/2xposi Bk
8736	3104 311 06271	Cable 2p3/560/2xposi Bk

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5222	2422 264 00575	Loudsp. 8Ω 8W
5223	2422 264 00576	Loudsp. 8Ω 8W

37PF9731/69

0802	One-ZIP file	Download from website.
1004⚠	9322 242 22682	TFT-LCD LK370D3LZ33
1010	3104 328 41771	Control Assy [E]
1017	3104 328 40891	Bottom I/O Assy [BE]
1095	2422 033 00584	Adapter SCART/CINCH/ S-VHS
1102	3104 328 46791	Service SSB
1110	3104 328 45122	Keyboard Cntrl Assy [E]
1112	3104 328 45811	LED Panel [J]
1115	3104 328 42511	Side I/O Assy [D]
1131	2722 171 00376	Ambil. Lamp Assy L
1132	2722 171 00377	Ambil. Lamp Assy R
1133	2722 171 00395	Ambil. Lamp Assy TOP B
1134	2722 171 00396	Ambil. Lamp Assy TOP B
1151	3104 328 45291	Card Reader Assy TOP B
1164	3104 328 48331	Double AL Inv. Assy [AL]
1166	3104 328 48331	Double AL Inv. Assy [AL]
8101	3104 311 05181	Cable 12p/315/12p
8103	3104 311 06091	Cable 10p/680/10p
8121	3104 311 07041	Cable 6p/1000/6p
8136	3104 311 08031	Cable 11p/480/11p
8146	3104 311 07461	Cable 11p/560/11p
8150	3104 311 12061	Cable 41p/280/51p
8199⚠	3104 311 10931	Wire ring /220/ring
8199	4822 320 11091	Antenna Cable Coaxial
8235	3104 311 08801	Flex foil 40p/140/40p
8302	3104 311 07801	Cable 7P 400mm
8319	3104 311 11501	Cable 14p/680/14p
8320⚠	3104 311 11751	Cable 14p/1k0/14p
8408⚠	3104 311 08071	Cable 2P3/140
8539	3104 311 05181	Cable 12p/315/12p
8559	3104 311 11361	Cable 5p/400/5p
8608	3104 311 03651	Cable 6p/100/6p Wh
8610	3104 311 05161	Cable 8p/600/8p
8735	3104 311 02241	Cable 2p3/820/2xposi Bk
8736	3104 311 06271	Cable 2p3/560/2xposi Bk

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5222	3141 130 00191	Loudsp. 4Ω 15W
5223	3141 130 00201	Loudsp. 4Ω 15W

37PF9731D/10

0802	One-ZIP file	Download from website.
1004⚠	9322 242 22682	TFT-LCD LK370D3LZ33
1010	3104 328 41771	Control Assy [E]
1017	3104 328 40891	Bottom I/O Assy [BE]
1102	3104 328 46791	Service SSB
1110	3104 328 45122	Keyboard Cntrl Assy [E]
1112	3104 328 45811	LED Panel [J]
1115	3104 328 42511	Side I/O Assy [D]
1131	2722 171 00376	Ambil. Lamp L
1132	2722 171 00377	Ambil. Lamp R
1133	2722 171 00395	Ambil. Lamp Assy TOP B
1134	2722 171 00396	Ambil. Lamp Assy TOP B
1151	3104 328 45291	Card Reader Assy TOP B
1164	3104 328 48331	Double AL Inv. Assy [AL]
1166	3104 328 48331	Double AL Inv. Assy [AL]
8101	3104 311 05181	Cable 12p/315/12p
8103	3104 311 06091	Cable 10p/680/10p
8121	3104 311 07041	Cable 6p/1000/6p
8136	3104 311 08031	Cable 11p/480/11p
8146	3104 311 07461	Cable 11p/560/11p
8150	3104 311 12061	Cable 41p/280/51p
8199⚠	3104 311 10931	Wire ring /220/ring
8235	3104 311 08801	Flex foil 40p/140/40p
8302	3104 311 07801	Cable 7P 400mm
8319	3104 311 11501	Cable 14p/680/14p
8320⚠	3104 311 11751	Cable 14p/1k0/14p
8408⚠	3104 311 08071	Cable 2P3/140
8539	3104 311 05181	Cable 12p/315/12p
8559	3104 311 11361	Cable 5p/400/5p
8608	3104 311 03651	Cable 6p/100/6p Wh
8610	3104 311 05161	Cable 8p/600/8p
8735	3104 311 02241	Cable 2p3/820/2xposi Bk
8736	3104 311 06271	Cable 2p3/560/2xposi Bk

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5222	3141 130 00191	Loudsp. 4Ω 15W
5223	3141 130 00201	Loudsp. 4Ω 15W

42PF9641D/10

0802	One-ZIP file	Download from website.
1004⚠	9322 246 84682	LCD LC420WU2-SLA1
1010	3104 328 41771	Control Assy [E]
1017	3104 328 40891	Bottom I/O Assy [BE]
1050⚠	2722 171 00445	Pow Supp Mod 117/230V
1102	3104 328 50681	Service SSB
1110	3104 328 45122	Keyboard Cntrl Assy [E]
1112	3104 328 45811	LED Panel [J]
1115	3104 328 44121	Side I/O [D]
1131	2722 171 00378	Ambil. Lamp Assy 580L
1132	2722 171 00379	Ambil. Lamp Assy 580R
8101	3104 311 05181	Cable 12p/315/12p
8103	3104 311 07391	Cable 10p/220/10p
8121	3104 311 07041	Cable 6p/1000/6p
8136⚠	3104 311 08031	Cable 11p/480/11p
8146⚠	3104 311 08621	Cable 11p/220/11p
8150	3104 311 12261	Cable 41p/380/51p
8199⚠	3104 311 11621	Cable Ring/280/ring
8201	2422 076 00596	Cable USB-A 4p
8302	3104 311 00801	Cable 7p/220/7p
8235	3104 311 08801	Flex foil 40p/140/40p
8316	3104 311 07271	Cable 12p/560/12p Wh
8319	3104 311 11331	Cable 14P/1000/14P
8402⚠	3104 311 11391	Cable 2p3/820/2p3 Bk
8408⚠	3104 311 06951	Cable 2p3/180/2p
8410	3104 311 11131	Cable 10p/820/10p Wh
8422⚠	3104 311 11381	Cable 2p3/680/2p3 Wh
8508	3104 311 06841	Cable 6p/820/6p
8510	3104 311 03231	Cable 6p/340/6p
8549	3104 311 11341	Cable 4p/1000/4p
8559	3104 311 11791	Cable 5p/560/5p Bk
8735	3104 311 01511	Cable 2p3/720/2xposi Bk

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5222	3141 130 00191	Loudsp. 4Ω 15W
5223	3141 130 00201	Loudsp. 4Ω 15W

42PF9731D/10

0802	One-ZIP file	Download from website.
1004⚠	9322 246 84682	LCD LC420WU2-SLA1
1010	3104 328 41771	Control Assy [E]
1017	3104 328 40891	Bottom I/O Assy [BE]
1051	2722 171 00445	PSU Module 117/230V
1102	3104 328 49151	Service SSB 4880X 42”
1110	3104 328 45122	Keyboard Cntrl Assy [E]
1112	3104 328 45811	LED Panel [J]
1115	3104 328 42511	Side I/O Assy [D]
1131	2722 171 00399	Ambil. Lamp Assy 580L2
1132	2722 171 00401	Ambil. Lamp Assy 580R2

1133	2722 171 00397	Ambil. Lamp Assy 580L2
1134	2722 171 00398	Ambil. Lamp Assy 480R2
1151	3104 328 45291	Card Reader Assy TOP B
1155	3104 328 44921	Platf. Supply As. 42" [AP]
1164	3104 328 48331	Double AL Inv. Assy [AL]
1166	3104 328 48331	Double AL Inv. Assy [AL]
8101	3104 311 05181	Cable 12p/315/12p
8103	3104 311 07391	Cable 10p/220/10p
8121	3104 311 07041	Cable 6p/1000/6p
8136▲	3104 311 08031	Cable 11p/480/11p
8142	3104 311 11371	Cable 5p/820/5p Wh
8146	3104 311 08621	Cable 11p/220/11p
8150	3104 311 11681	Cable 41p/320/30p
8150	3104 311 12061	Cable 41p/280/51p
8199▲	3104 311 11621	Cable Ring/280/ring
8235	3104 311 08801	Flex foil 40p/140/40p
8302	3104 311 00801	Cable 7p/220/7p
8310	3104 311 10284	Cable 2p3/280/2p3
8316	3104 311 07281	Cable 12p/680/12p
8319	3104 311 11331	Cable 14P/1000/14P
8402	3104 311 11391	Cable 2p3/820/2p3 Bk
8408▲	3104 311 06951	Cable 2p3/180/2p
8410	3104 311 11131	Cable 10p/820/10p Wh
8410	3104 311 11441	Cable 10p/820/10p
8422	3104 311 11381	Cable 2p3/680/2p3 Wh
8508	3104 311 06941	Cable 6p/680/6p
8510	3104 311 03231	Cable 6p/340/6p
8735	3104 311 01511	Cable 2p3/720/2xposi Bk
8736	3104 311 06271	Cable 2p3/560/2xposi Bk
8539	3104 311 08521	Cable 3p/1000/3p
8559	3104 311 11791	Cable 5p/560/5p Bk
8738	3104 311 05931	Cable 4p/480/4p Bk

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5222	3141 130 00191	Loudsp. 4Ω 15W
5223	3141 130 00201	Loudsp. 4Ω 15W

42PF9831/69

0802	One-ZIP file	Download from website.
1004▲	9322 240 80682	LCD LC420WX2-SLA1
1017	3104 328 40891	Bottom I/O Assy [BE]
1064	3104 328 48331	Double AL Inv. Assy [AL]
1066	3104 328 48331	Double AL Inv. Assy [AL]
1068	3104 328 48331	Double AL Inv. Assy [AL]
1095	2422 033 00584	Adapter SCART/CINCH/ S-VHS
1102	3104 328 46781	Service SSB 4405X 42"
1110	3104 328 43111	Keyboard Cntrl Assy [E]
1112	3104 328 45811	LED Panel [J]
1115	3104 328 42511	Side I/O Assy [D]
1131	2722 171 00372	Ambil. Lamp Assy 580L
1132	2722 171 00373	Ambil. Lamp Assy 580R
1133	2722 171 00369	Ambil. Lamp Assy 500L
1134	2722 171 00371	Ambil. Lamp Assy 500R
1135	2722 171 00369	Ambil. Lamp Assy 500L
1136	2722 171 00371	Ambil. Lamp Assy 500R
1151	3104 328 35441	Card Reader Assy TOP A
1152	3104 328 44921	Platf. Supply As. 42" [AP]
1180	2722 171 00364	PSU Module 117/230V
8101	3104 311 06551	Cable 3p/1300/3p
8103	3104 311 07391	Cable 10p/220/10p
8121▲	3104 311 07831	Cable 6p/820/6p Wh
8136▲	3104 311 07471	Cable 11p/680/11p
8142	3104 311 11371	Cable 5p/820/5p Wh
8146	3104 311 08621	Cable 11p/220/11p
8150	3104 311 11681	Cable 41p/320/30p
8199	3104 311 08251	Wire ring/180/Posi
8235	3104 311 08801	Flex foil 40p/140/40p
8302	3104 311 00801	Cable 7p/220/7p
8310	3104 311 10284	Cable 2p3/280/2p3
8402▲	3104 311 11391	Cable 2p3/820/2p3 Bk
8408▲	3104 311 06951	Cable 2p3/180/2p
8410	3104 311 11441	Cable 10p/820/10p
8422▲	3104 311 11381	Cable 2p3/680/2p3 Wh
8510	3104 311 06841	Cable 6p/820/6p
8539	3104 311 06551	Cable 3p/1300/3p
8549	3104 311 11801	Cable 4p/1300/4p Bk
8559	3104 328 47291	Cable Assy Tie Wrap
8608	3104 311 06941	Cable 6p/680/6p
8610	3104 311 11011	Cable 6p/1k3/6p Wh
8735	3104 311 02241	Cable 2p3/820/2xposi Bk
8736	3104 311 06271	Cable 2p3/560/2xposi Bk
8911	3104 311 08731	Cable Posi/100/posi

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5222	2422 264 00592	Loudsp. Box 5Ω 15W
5223	2422 264 00592	Loudsp. Box 5Ω 15W
5224	3141 130 00171	Loudsp. 10Ω 13W Subw.

42PF9831D/10

0802	One-ZIP file	Download from website.
1004▲	9322 240 80682	LCD LC420WX2-SLA1
1017	3104 328 40891	Bottom I/O Assy [BE]
1064	3104 328 48331	Double AL Inv. Assy [AL]
1066	3104 328 48331	Double AL Inv. Assy [AL]
1068	3104 328 48331	Double AL Inv. Assy [AL]
1096	2422 015 00621	Cable Clamp Fix Ny66
1102	3104 328 46781	Service SSB 4405X 42"
1110	3104 328 43111	Keyboard Cntrl Assy [E]
1112	3104 328 45811	LED Panel [J]
1115	3104 328 42511	Side I/O Assy [D]
1131	2722 171 00372	Ambil. Lamp Assy 580L
1132	2722 171 00373	Ambil. Lamp Assy 580R
1133	2722 171 00369	Ambil. Lamp Assy 500L
1134	2722 171 00371	Ambil. Lamp Assy 500R
1135	2722 171 00369	Ambil. Lamp Assy 500L
1136	2722 171 00371	Ambil. Lamp Assy 500R
1151	3104 328 35441	Card Reader Assy TOP A
1180	2722 171 00364	PSU Module 117/230V
8000	3104 311 11831	Cable 5p/820/5p Bk Ferr.
8101	3104 311 06551	Cable 3p/1300/3p
8103	3104 311 07391	Cable 10p/220/10p
8142	3104 311 11371	Cable 5p/820/5p Wh
8146	3104 311 08621	Cable 11p/220/11p
8150	3104 311 11681	Cable 41p/320/30p
8121▲	3104 311 07831	Cable 6p/820/6p Wh
8136▲	3104 311 07471	Cable 11p/680/11p
8199	3104 311 08251	Wire ring/180/Posi
8235	3104 311 08801	Flex foil 40p/140/40p
8302	3104 311 00801	Cable 7p/220/7p
8310	3104 311 10284	Cable 2p3/280/2p3
8402	3104 311 11391	Cable 2p3/820/2p3 Bk
8408▲	3104 311 06951	Cable 2p3/180/2p
8410	3104 311 11441	Cable 10p/820/10p
8422▲	3104 311 11381	Cable 2p3/680/2p3 Wh
8510	3104 311 06841	Cable 6p/820/6p
8539	3104 311 06551	Cable 3p/1300/3p
8549	3104 311 11801	Cable 4p/1300/4p Bk
8559	3104 328 47291	Cable Assy Tie Wrap
8608	3104 311 06941	Cable 6p/680/6p
8610	3104 311 11011	Cable 6p/1k3/6p Wh
8735	3104 311 02241	Cable 2p3/820/2xposi Bk
8736	3104 311 06271	Cable 2p3/560/2xposi Bk
8911	3104 311 08731	Cable Posi/100/posi

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5222	2422 264 00592	Loudsp. Box 5Ω 15W
5223	2422 264 00592	Loudsp. Box 5Ω 15W
5224	3141 130 00171	Loudsp. 10Ω 13W Subw

Power Supply Panel 32 [A]

Various

1007▲	2422 086 00678	Fuse 5A T 250V
1305	4822 267 10735	Connector 3p
1306▲	2422 025 16374	Connector 2p m
1308▲	4822 265 20723	Connector 2p
1310	4822 265 20723	Connector 2p
1400▲	2422 086 00728	Fuse 3.15A 250V
1400▲	4822 253 50145	Fuse 3.15A T
1401▲	4822 252 11224	Fuse 1A T 250V
1402	4822 252 60151	Surge protect
1410	4822 265 11253	Fuse holder
1411	4822 265 11253	Fuse holder
1450▲	2422 132 07411	Relay 1p 5V 5A
1M02	2422 025 11244	Connector 7p m
1M08	2422 025 08149	Connector 6p m
1M64	2422 025 10769	Connector 9p m

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2000▲	2022 554 04157	1.5NF 250V 20%
2002	4822 124 11767	470µF 20% 25V
2003	4822 124 80061	1000µF 20% 25V
2007	4822 126 14583	470nF 10% 16V 0805
2008	4822 126 14583	470nF 10% 16V 0805
2009	2238 867 18101	100pF 1% 50V 0603
2010	4822 124 40207	100µF 20% 25V
2011	2222 375 24153	15nF 5% 1kV
2012	4822 126 13449	1nF 10% 2kV
2013	4822 126 13449	1nF 10% 2kV
2014▲	4822 126 13451	2.2nF 10% 2kV
2015	5322 126 11583	10nF 10% 50V 0603
2016	2238 586 59812	100nF 20% 50V 0603
2017	2222 375 24153	15nF 5% 1kV
2019	5322 126 11583	10nF 10% 50V 0603
2020	4822 124 12285	2200µF 20% 16V
2021	4822 124 12285	2200µF 20% 16V
2022	2020 024 90708	47µF 400V 20%
2023	4822 126 14583	470nF 10% 16V 0805
2024	2020 552 96326	220nF 10% 16V
2026	4822 126 14238	2.2nF 50V 0603
2028	5322 126 11578	1nF 10% 50V 0603
2032	4822 126 10206	2.2nF 10% 500V
2034	2238 867 18101	100pF 1% 50V 0603
2035	2238 867 18101	100pF 1% 50V 0603
2038	2020 024 90708	47µF 400V 20%
2039	4822 126 14583	470nF 10% 16V 0805
2040	4822 126 14249	560pF 10% 50V 0603
2044	5322 126 11578	1nF 10% 50V 0603
2046	3198 017 34730	47nF 16V 0603
2047	5322 126 11583	10nF 10% 50V 0603
2048	5322 126 11578	1nF 10% 50V 0603
2050	5322 126 11578	1nF 10% 50V 0603
2060	4822 126 14238	2.2nF 50V 0603
2061	4822 126 14238	2.2nF 50V 0603
2062	4822 126 14238	2.2nF 50V 0603
2063	4822 126 13881	470pF 5% 50V
2064	4822 126 13881	470pF 5% 50V
2065	4822 126 14238	2.2nF 50V 0603
2066	4822 122 31211	100pF 10% 500V
2067	4822 122 31211	100pF 10% 500V
2071	5322 126 11578	1nF 10% 50V 0603
2072	5322 126 11578	1nF 10% 50V 0603
2077	4822 126 14238	2.2nF 50V 0603
2290	5322 126 11583	10nF 10% 50V 0603
2291	4822 126 13881	470pF 5% 50V
2292	4822 124 40784	3300µF 20% 16V
2293	4822 126 13881	470pF 5% 50V
2294	4822 124 40784	3300µF 20% 16V
2400▲	2222 338 22474	470nF 20% 275V
2407▲	2022 554 04155	470pF 20% 250V
2816	2020 024 00001	330µF 20% 400V
2816	2020 024 90749	330µF 20% 400V

-WW-

3000▲	4822 052 10478	4.7Ω 5% 0.33W
3001	4822 051 30101	100Ω 5% 0.062W
3002	4822 051 30393	39kΩ 5% 0.062W
3003	4822 117 13632	100kΩ 1% 0603 0.62W
3004	4822 051 30273	27kΩ 5% 0.062W
3005	4822 051 30333	33kΩ 5% 0.062W
3006	4822 051 30103	10kΩ 5% 0.062W
3007	4822 051 30103	10kΩ 5% 0.062W
3008	4822 051 30331	330Ω 5% 0.062W
3009	4822 051 30332	3.3Ω 5% 0.062W
3010	4822 051 30471	47Ω 5% 0.062W
3011	4822 051 30471	47Ω 5% 0.062W
3012	4822 051 30153	15kΩ 5% 0.062W
3013	4822 051 30103	10kΩ 5% 0.062W
3014▲	4822 052 10101	100Ω 5% 0.33W
3015▲	4822 052 10479	47Ω 5% 0.33W
3016	4822 051 30332	3.3Ω 5% 0.062W
3017▲	4822 052 10101	100Ω 5% 0.33W
3018▲	4822 052 10479	47Ω 5% 0.33W
3019	4822 051 30332	3.3Ω 5% 0.062W
3020	4822 051 30332	3.3Ω 5% 0.062W
3021	4822 117 12971	15Ω 5% 0603 0.62W
3022	4822 051 30681	680Ω 5% 0.062W
3023	4822 051 30153	15kΩ 5% 0.062W
3024	3198 039 47040	470kΩ 1% MFLM
3025	3198 021 31820	1.8kΩ 5% 0.062W 0603
3026	2120 368 90118	Potm. lin. 470Ω hor.
3026	4822 100 11677	470R 30%LIN 0.2W
3027	4822 117 13632	100kΩ 1% 0603 0.62W
3028	4822 051 30332	3.3Ω 5% 0.062W
3029	4822 051 30332	3.3Ω 5% 0.062W
3030	4822 051 30183	18kΩ 5% 0.062W
3031	4822 051 30103	10kΩ 5% 0.062W
3032	4822 051 30223	22kΩ 5% 0.062W
3033	4822 052 11108	1Ω 5% 0.5W
3034	4822 051 30102	1kΩ 5% 0.062W
3035	4822 051 30332	3.3Ω 5% 0.062W
3038	4822 050 22204	220kΩ 1% 0.6W
3040	3198 021 38220	8.2kΩ 5% 0.062W 0603
3041	4822 051 30333	33kΩ 5% 0.062W
3043	4822 051 30109	10Ω 5% 0.062W
3045	4822 117 12971	15Ω 5% 0603 0.62W
3046	4822 117 12971	15Ω 5% 0603 0.62W
3047	4822 051 30479	47Ω 5% 0.062W
3048	4822 051 30272	2.7kΩ 5% 0.062W
3050	4822 050 28204	820kΩ 1% 0.6W
3051	4822 051 30103	10kΩ 5% 0.062W
3052	4822 051 30153	15kΩ 5% 0.062W
3053	4822 050 26804	680kΩ 1% 0.6W
3055	4822 051 30221	220Ω 5% 0.062W
3055	4822 051 30471	47Ω 5% 0.062W
3056	4822 051 30221	220Ω 5% 0.062W

3057	4822 051 30221	220Ω 5% 0.062W
3058	4822 053 20565	5.6MΩ 5% 0.25W
3061	4822 051 30683	68kΩ 5% 0.062W
3064	4822 051 30103	10kΩ 5% 0.062W
3065	4822 117 13632	100kΩ 1% 0603 0.62W
3066	4822 051 30103	10kΩ 5% 0.062W
3067	4822 051 30101	100Ω 5% 0.062W
3068	4822 051 30222	2.2kΩ 5% 0.062W
3070	4822 051 30102	1kΩ 5% 0.062W
3071	4822 051 30103	10kΩ 5% 0.062W
3075	4822 051 30102	1kΩ 5% 0.062W
3100	4822 051 30109	10Ω 5% 0.062W
3292	4822 051 30561	560Ω 5% 0.062W
3400⚠	2122 550 00158	VDR 1mA 612V
3401⚠	4822 053 21475	4.7MΩ 5% 0.5W
3402⚠	4822 053 21475	4.7MΩ 5% 0.5W
3403⚠	4822 053 21475	4.7MΩ 5% 0.5W
3404	4822 116 83872	220Ω 5% 0.5W
3406	4822 051 30103	10kΩ 5% 0.062W
3408	4822 053 11223	22kΩ 5% 2W
3409	4822 051 10102	1kΩ 2% 0.25W
3410	4822 117 12925	47kΩ 1% 0.063W 0603
3999	4822 051 30222	2.2kΩ 5% 0.062W
9074	4822 051 20008	Jumper 0805
9110	4822 051 20008	Jumper 0805

5001	2422 531 02444	S13932-04Y
5002⚠	2422 531 00118	Transf. 2652.0003D
5005	4822 526 10704	Bead 50 Ω at 100MHz
5007	4822 526 10704	Bead 50 Ω at 100MHz
5008	4822 526 10704	Bead 50 Ω at 100MHz
5009	4822 157 11411	Bead 80Ω at 100MHz
5010	4822 157 11411	Bead 80Ω at 100MHz
5013	4822 526 10704	Bead 50 Ω at 100MHz
5015	4822 157 11411	Bead 80Ω at 100MHz
5016	4822 157 11411	Bead 80Ω at 100MHz
5017	4822 526 10704	Bead 50 Ω at 100MHz
5025	4822 526 10704	Bead 50 Ω at 100MHz
5026	4822 526 10704	Bead 50 Ω at 100MHz
5027	4822 526 10704	Bead 50 Ω at 100MHz
5028	4822 526 10704	Bead 50 Ω at 100MHz
5040	4822 157 11411	Bead 80Ω at 100MHz
5291	2422 536 01194	3.3μH 20%
5292	2422 536 01194	3.3μH 20%
5293	2422 536 01194	3.3μH 20%
5401⚠	2422 549 43291	Filter 47mH 2A
5403	3104 308 21201	Line filter DTH40383H65

6002	4822 130 11397	BAS316
6003	4822 130 11397	BAS316
6004	4822 130 80622	BAT54
6005	4822 130 80622	BAT54
6006	4822 130 11397	BAS316
6007	4822 130 11397	BAS316
6008	4822 130 11397	BAS316
6009	4822 130 11152	UDZ18B
6010	4822 130 11397	BAS316
6011	4822 130 11397	BAS316
6012	9322 208 80685	BZG05C15
6013	9322 208 80685	BZG05C15
6017	4822 130 11397	BAS316
6020	4822 130 11397	BAS316
6022	4822 130 11148	UDZ4.7B
6023	4822 130 11397	BAS316
6027	4822 130 11397	BAS316
6028	4822 130 11397	BAS316
6031	9322 203 12673	BYV27-600
6032	9322 203 12673	BYV27-600
6033	9322 203 12673	BYV27-600
6034	9322 203 12673	BYV27-600
6044	9322 207 11687	STPS20L45CT
6045	9322 207 11687	STPS20L45CT
6051	4822 130 11397	BAS316
6077	9322 202 55685	BYG22D
6078	9322 202 55685	BYG22D
6079	9322 202 55685	BYG22D
6080	9322 202 55685	BYG22D
6081	9340 548 67115	PDZ22B
6291	4822 130 11572	STPS8H100F
6293	4822 130 11572	STPS8H100F
6460	4822 130 11397	BAS316
6461	4822 130 11397	BAS316
6465	9340 292 50135	BZG03-C200
6466	9340 292 50135	BZG03-C200
6467	9340 548 71115	PDZ33B
6506⚠	4822 130 83147	DF06M
6807⚠	3104 307 09981	932223700682
6807⚠	9322 199 74682	GBJ6J-B15
6807⚠	9322 237 00682	Bridge TS6B05G-06
6807⚠	9322 246 54682	TS6B05G-07

7001	9322 108 21682	MC34067P
7002⚠	9322 149 04682	TCET1102
7004	3198 010 42310	BC847BW
7005	9322 192 18687	STP15NK50ZFP
7005	9322 205 26687	FQPF18N50V2
7006	9322 192 18687	STP15NK50ZFP
7006	9322 205 26687	FQPF18N50V2
7007	3198 010 42320	BC857BW
7008	3198 010 42320	BC857BW
7009	3198 010 42320	BC857BW
7010	9322 192 16685	TS2431AI
7017	3198 010 42320	BC857BW
7018	3198 010 42310	BC847BW
7030	3198 010 42310	BC847BW
7807⚠	9322 149 04682	TCET1102

Display/Platform Supply Panel 37" [A]

Various

1308⚠	4822 265 20723	Connector 2p
1319	2422 025 10773	Connector 14p m
1320	2422 025 10773	Connector 14p m
1400⚠	4822 070 35002	Fuse 5A
1402	4822 252 60151	Surge protect
1410	4822 265 11253	Fuse holder
1450⚠	2422 132 07411	Relay 1p 5V 5A
1M02	2422 025 11244	Connector 7p m
1M03	2422 025 10771	Connector 10p m
1M08	2422 025 08149	Connector 6p m
1M09	2422 025 08149	Connector 6p m
1M46	2422 025 10655	Connector 11p m
1M63	2422 025 09405	Connector 2p m
1P03	2422 086 00717	Fuse 1.6A T 250V
1P06	2422 086 00678	Fuse 5A T 250V
1P07	2422 086 00678	Fuse 5A T 250V
1P17⚠	2422 132 07411	Relay 1p 5V 5A
1P30	2422 086 00663	Fuse 1A T 250V
1U00⚠	2422 086 00648	Fuse 1A T 250V
1U02	4822 492 62076	Transistor clamp
1U07	4822 492 62076	Transistor clamp

2000⚠	2022 554 04157	1.5NF 250V 20%
2001	5322 126 11578	1nF 10% 50V 0603
2002	4822 124 11767	470μF 20% 25V
2003	4822 124 80061	1000μF 20% 25V
2007	4822 126 14583	470nF 10% 16V 0805
2008	4822 126 14583	470nF 10% 16V 0805
2009	2238 867 18101	100pF 1% 50V 0603
2010	4822 124 40207	100μF 20% 25V
2011	2222 375 24153	15nF 5% 1kV
2012⚠	4822 126 13449	1nF 10% 2kV
2013	4822 126 13449	1nF 10% 2kV
2014⚠	4822 126 13451	2.2nF 10% 2kV
2015	5322 126 11583	10nF 10% 50V 0603
2016	2238 586 59812	100nF 20% 50V 0603
2017	2222 375 24153	15nF 5% 1kV
2019	5322 126 11583	10nF 10% 50V 0603
2021	4822 124 12285	2200μF 20% 16V
2022	2020 021 00039	1800μF 20% 35V
2023	4822 126 14583	470nF 10% 16V 0805
2024	2020 552 96326	220nF 10% 16V
2025	2020 552 96683	220nF 10% 50V
2026	4822 126 14238	2.2nF 50V 0603
2028	5322 126 11578	1nF 10% 50V 0603
2029	5322 126 11578	1nF 10% 50V 0603
2033	2020 552 96683	220nF 10% 50V
2034	2238 867 18101	100pF 1% 50V 0603
2035	2238 867 18101	100pF 1% 50V 0603
2038	2020 021 00039	1800μF 20% 35V
2039	4822 126 14583	470nF 10% 16V 0805
2040	4822 126 14249	560pF 10% 50V 0603
2041	2020 552 96683	220nF 10% 50V
2042	2020 552 96683	220nF 10% 50V
2043	2020 552 96683	220nF 10% 50V
2044	5322 126 11578	1nF 10% 50V 0603
2045	5322 126 11578	1nF 10% 50V 0603
2046	3198 017 34730	47nF 16V 0603
2047	5322 126 11583	10nF 10% 50V 0603
2048	5322 126 11578	1nF 10% 50V 0603
2049	5322 126 11578	1nF 10% 50V 0603
2050	5322 126 11578	1nF 10% 50V 0603
2051	2020 552 96683	220nF 10% 50V
2052	2020 552 96683	220nF 10% 50V
2053	2020 552 96683	220nF 10% 50V
2060	4822 126 14238	2.2nF 50V 0603
2061	4822 126 14238	2.2nF 50V 0603
2062	4822 126 14238	2.2nF 50V 0603
2063	4822 126 13881	470pF 5% 50V
2064	4822 126 13881	470pF 5% 50V
2065	4822 126 14238	2.2nF 50V 0603
2071	5322 126 11578	1nF 10% 50V 0603
2072	5322 126 11578	1nF 10% 50V 0603
2077	4822 126 14238	2.2nF 50V 0603
2400⚠	2222 338 22474	470nF 20% 275V
2402	4822 126 14238	2.2nF 50V 0603
2403	2222 339 23223	22nF 20% 275V
2407⚠	2022 554 04155	470pF 20% 250V
2410⚠	2022 554 04163	100pF 10% 250V
2411⚠	2022 554 04163	100pF 10% 250V
2803	2222 365 55563	56nF 10% 400V
2804	2222 365 55563	56nF 10% 400V
2816	2020 024 90749	330μF 20% 400V
2P01	2022 552 05679	1μF 10% 16V 0805
2P03	2022 552 05679	1μF 10% 16V 0805
2P04	2022 552 05679	1μF 10% 16V 0805
2P05	4822 124 81151	22μF 50V
2P06	2022 554 04154	220pF 10% 250V
2P07	2020 024 90718	10μF 20% 450V
2P08	2020 024 90718	10μF 20% 450V
2P09	2222 365 55563	56nF 10% 400V
2P10	2222 365 55563	56nF 10% 400V
2P11	2022 552 05679	1μF 10% 16V 0805
2P12	2238 586 59812	100nF 20% 50V 0603
2P13	2238 586 59812	100nF 20% 50V 0603
2P14	4822 121 70162	10nF 5% 400V
2P16	2020 024 90718	10μF 20% 450V
2P17	2020 024 90718	10μF 20% 450V
2P21	2238 586 59812	100nF 20% 50V 0603
2P22	2020 552 96683	220nF 10% 50V
2P23	5322 126 11578	1nF 10% 50V 0603
2P24	2022 552 05679	1μF 10% 16V 0805
2P25	2238 930 11541	220pF 5% 200V
2P26	2020 552 96683	220nF 10% 50V
2P27	3198 038 41020	1000μF 20% 35V
2P28	3198 038 41020	1000μF 20% 35V
2P29	3198 038 41020	1000μF 20% 35V
2P30	3198 038 41020	1000μF 20% 35V
2P33	2238 586 59812	100nF 20% 50V 0603
2P34	2020 552 96683	220nF 10% 50V
2P35	2020 552 96683	220nF 10% 50V
2P36	2238 586 59812	100nF 20% 50V 0603
2P37	2238 586 59812	100nF 20% 50V 0603
2P40	2238 586 59812	100nF 20% 50V 0603
2P41	2022 552 05679	1μF 10% 16V 0805
2P42	2238 930 11541	220pF 5% 200V
2P43	2238 930 11541	220pF 5% 200V
2P45	2238 586 59812	100nF 20% 50V 0603
2P47	2020 021 00093	1000μF 20%
2P48	2020 021 00093	1000μF 20%
2P49	2020 021 00093	1000μF 20%
2P50	2020 021 00093	1000μF 20%
2P51	5322 126 11583	10nF 10% 50V 0603
2P52	4822 121 70162	10nF 5% 400V
2P53	2020 552 94427	100pF 5% 50V
2P57	2020 552 96683	220nF 10% 50V
2P64	2238 930 11541	220pF 5% 200V
2P80	2020 552 96683	220nF 10% 50V
2P81	2238 586 59812	100nF 20% 50V 0603
2S04	4822 126 13682	100pF 5% 1kV
2S06	2022 554 04154	220pF 10% 250V
2S07	3198 017 34730	47nF 16V 0603
2S13	2222 930 56627	2.2nF 10% 200V 0805
2S14	4822 124 12379	220μF 25V
2S15	2022 552 05679	1μF 10% 16V 0805
2S16	4822 124 81151	22μF 50V
2S17	4822 124 81151	22μF 50V
2S18	3198 017 34730	47nF 16V 0603
2S33	4822 124 40207	100μF 20% 25V
2S39	2022 552 05679	1μF 10% 16V 0805
2S40	4822 121 70162	10nF 5% 400V
2S41	2020 552 96683	220nF 10% 50V
2S50	2020 021 91668	2200μF 20% 10V
2S52	4822 121 70162	10nF 5% 400V
2S54	3198 017 31530	15nF 20% 50V 0603
2S56	2020 552 96683	220nF 10% 50V
2U01	5322 126 11583	10nF 10% 50V 0603
2U02	4822 121 70162	10nF 5% 400V
2U05	2222 930 56627	2.2nF 10% 200V 0805
2U06	2022 554 04155	470pF 20% 250V
2U07	2020 024 90718	10μF 20% 450V
2U08	2020 024 90718	10μF 20% 450V
2U09	4822 124 81151	22μF 50V
2U10	2238 916 15641	22nF 10% 25V 0603
2U11	2022 552 05679	1μF 10% 16V 0805
2U13	3198 017 34730	47nF 16V 0603

2U14	2020 012 93057	2200?F 20% 16V
2U15	4822 124 81151	22µF 50V
2U22	2222 370 65473	47nF 10% 400V

3000⚠	4822 052 10478	4.7Ω 5% 0.33W
3001	4822 051 30101	100Ω 5% 0.062W
3002	4822 051 30393	39kΩ 5% 0.062W
3003	4822 117 13632	100kΩ 1% 0603 0.62W
3004	4822 051 30273	27kΩ 5% 0.062W
3005	4822 051 30333	33kΩ 5% 0.062W
3006	4822 051 30103	10kΩ 5% 0.062W
3007	4822 051 30103	10kΩ 5% 0.062W
3008	4822 051 30331	330Ω 5% 0.062W
3009	4822 051 30332	3.3Ω 5% 0.062W
3010	4822 051 30471	47Ω 5% 0.062W
3011	4822 051 30471	47Ω 5% 0.062W
3012	4822 051 30153	15kΩ 5% 0.062W
3013	4822 051 30103	10kΩ 5% 0.062W
3014⚠	4822 052 10101	100Ω 5% 0.33W
3015⚠	4822 052 10479	47Ω 5% 0.33W
3016	4822 051 30332	3.3Ω 5% 0.062W
3017⚠	4822 052 10101	100Ω 5% 0.33W
3018⚠	4822 052 10479	47Ω 5% 0.33W
3019	4822 051 30332	3.3Ω 5% 0.062W
3020	4822 051 30332	3.3Ω 5% 0.062W
3021	4822 117 12971	15Ω 5% 0603 0.62W
3022	4822 051 30681	680Ω 5% 0.062W
3023	4822 051 30153	15kΩ 5% 0.062W
3024	4822 050 21803	18kΩ 1% 0,6W
3025	3198 021 31820	1.8kΩ 5% 0.062W 0603
3026	2120 368 90118	Potm. lin. 470Ω hor.
3027	4822 117 13632	100kΩ 1% 0603 0.62W
3028	4822 051 30332	3.3Ω 5% 0.062W
3029	4822 051 30332	3.3Ω 5% 0.062W
3030	4822 051 30183	18kΩ 5% 0.062W
3032	4822 051 30103	10kΩ 5% 0.062W
3033⚠	4822 052 11108	1Ω 5% 0.5W
3034	4822 051 30222	2.2kΩ 5% 0.062W
3035	4822 051 30332	3.3Ω 5% 0.062W
3040	3198 021 38220	8.2kΩ 5% 0.062W 0603
3041	4822 051 30333	33kΩ 5% 0.062W
3043	4822 051 30109	10Ω 5% 0.062W
3045	4822 117 12971	15Ω 5% 0603 0.62W
3046	4822 117 12971	15Ω 5% 0603 0.62W
3047	4822 051 30479	47Ω 5% 0.062W
3048	4822 051 30272	2.7kΩ 5% 0.062W
3050	4822 050 28204	820kΩ 1% 0.6W
3053	4822 050 26804	680kΩ 1% 0.6W
3055	4822 051 30221	220Ω 5% 0.062W
3056	4822 051 30221	220Ω 5% 0.062W
3057	4822 051 30221	220Ω 5% 0.062W
3058	4822 053 20565	5.6MΩ 5% 0.25W
3060	4822 051 30103	10kΩ 5% 0.062W
3061	4822 051 30683	68kΩ 5% 0.062W
3064	4822 051 30103	10kΩ 5% 0.062W
3065	4822 117 13632	100kΩ 1% 0603 0.62W
3066	4822 051 30103	10kΩ 5% 0.062W
3067	4822 051 30101	100Ω 5% 0.062W
3068	4822 051 30222	2.2kΩ 5% 0.062W
3070	4822 051 30102	1kΩ 5% 0.062W
3071	4822 051 30103	10kΩ 5% 0.062W
3072	4822 051 30222	2.2kΩ 5% 0.062W
3073	3198 021 38220	8.2kΩ 5% 0.062W 0603
3074	4822 051 30102	1kΩ 5% 0.062W
3075	4822 051 30102	1kΩ 5% 0.062W
3076	4822 051 30682	6.8Ω 5% 0.062W
3077	4822 117 12925	47kΩ 1% 0.063W 0603
3078	4822 051 30102	1kΩ 5% 0.062W
3080	2322 195 63471	470Ω 5%
3100	4822 051 30109	10Ω 5% 0.062W
3400⚠	2122 550 00158	VDR 1mA 612V
3401⚠	4822 053 21475	4.7MΩ 5% 0.5W
3402⚠	4822 053 21475	4.7MΩ 5% 0.5W
3403⚠	4822 053 21475	4.7MΩ 5% 0.5W
3404	4822 116 83872	220Ω 5% 0.5W
3406	4822 051 30103	10kΩ 5% 0.062W
3408	4822 053 11223	22kΩ 5% 2W
3410	4822 117 12925	47kΩ 1% 0.063W 0603
3413	4822 051 30153	15kΩ 5% 0.062W
3422	4822 051 30103	10kΩ 5% 0.062W
3423	4822 051 30103	10kΩ 5% 0.062W
3424	4822 051 30221	220Ω 5% 0.062W
3425	4822 051 30103	10kΩ 5% 0.062W
3431	4822 051 30109	10Ω 5% 0.062W
3P00	4822 117 10833	10kΩ 1% 0.1W
3P01	4822 117 10833	10kΩ 1% 0.1W
3P02	4822 117 10833	10kΩ 1% 0.1W
3P03	4822 117 10833	10kΩ 1% 0.1W
3P04	2322 734 63309	33Ω 1% 0.1W 0805
3P09	4822 051 30223	22kΩ 5% 0.062W
3P10	4822 051 30223	22kΩ 5% 0.062W
3P11	4822 117 13632	100kΩ 1% 0603 0.62W
3P12	4822 051 30474	470kΩ 5% 0.062W
3P14	4822 117 12925	47kΩ 1% 0.063W 0603
3P15	4822 051 30102	1kΩ 5% 0.062W
3P16	4822 051 30109	10Ω 5% 0.062W
3P17	4822 051 30223	22kΩ 5% 0.062W
3P18	4822 051 30223	22kΩ 5% 0.062W
3P19	4822 117 12891	220kΩ 1%
3P20	4822 051 30103	10kΩ 5% 0.062W
3P21	4822 051 30103	10kΩ 5% 0.062W
3P22	4822 051 30105	1MΩ 5% 0.062W
3P23	5322 117 13053	6.8kΩ 1% 0.063W 0603
3P24	4822 117 12891	220kΩ 1%
3P26	4822 051 30103	10kΩ 5% 0.062W
3P27	4822 051 30123	12kΩ 5% 0.1W
3P28	3198 012 24730	47kΩ 5%
3P29	4822 053 11471	470Ω 5% 2W
3P30	4822 117 13632	100kΩ 1% 0603 0.62W
3P31	4822 051 30102	1kΩ 5% 0.062W
3P33	4822 051 30471	47Ω 5% 0.062W
3P34	4822 051 30222	2.2kΩ 5% 0.062W
3P36	4822 051 30471	47Ω 5% 0.062W
3P38	4822 117 12925	47kΩ 1% 0.063W 0603
3P39	4822 117 12925	47kΩ 1% 0.063W 0603
3P40	4822 117 12864	82kΩ 5% 0.6W
3P41	4822 117 12891	220kΩ 1%
3P42	4822 051 30222	2.2kΩ 5% 0.062W
3P43	4822 051 30222	2.2kΩ 5% 0.062W
3P44	4822 051 30222	2.2kΩ 5% 0.062W
3P45	4822 051 30105	1MΩ 5% 0.062W
3P46	4822 117 12925	47kΩ 1% 0.063W 0603
3P47	4822 051 30472	4.7Ω 5% 0.062W
3P48	2322 734 63309	33Ω 1% 0.1W 0805
3P49	4822 051 30103	10kΩ 5% 0.062W
3P50	4822 117 12971	15Ω 5% 0603 0.62W
3P51	4822 117 13632	100kΩ 1% 0603 0.62W
3P52	4822 051 30103	10kΩ 5% 0.062W
3P53	4822 051 30223	22kΩ 5% 0.062W
3P54	4822 051 30103	10kΩ 5% 0.062W
3P55	4822 051 30331	330Ω 5% 0.062W
3P57	3198 012 22280	2.2Ω 5% 2W
3P58	3198 012 22280	2.2Ω 5% 2W
3P59	4822 051 30102	1kΩ 5% 0.062W
3P60	4822 051 30103	10kΩ 5% 0.062W
3P61	4822 051 30471	47Ω 5% 0.062W
3P62	4822 051 30102	1kΩ 5% 0.062W
3P63	4822 051 30102	1kΩ 5% 0.062W
3P64	4822 117 12925	47kΩ 1% 0.063W 0603
3P65	5322 117 13053	6.8kΩ 1% 0.063W 0603
3P66	5322 117 13046	1.8kΩ 1% 0.063W 0603
3P68	4822 051 30103	10kΩ 5% 0.062W
3P69	2122 118 05952	560kΩ 5% 0603
3P73	4822 051 30103	10kΩ 5% 0.062W
3P74	4822 051 30223	22kΩ 5% 0.062W
3P75	4822 051 30472	4.7Ω 5% 0.062W
3P76	4822 117 12891	220kΩ 1%
3P77	2322 193 14332	3.3kΩ 5% 1W
3P78	4822 051 30472	4.7Ω 5% 0.062W
3P79	4822 051 30272	2.7kΩ 5% 0.062W
3P80	4822 051 30272	2.7kΩ 5% 0.062W
3P81	4822 051 30223	22kΩ 5% 0.062W
3P82	4822 051 30222	2.2kΩ 5% 0.062W
3P83	4822 051 30332	3.3Ω 5% 0.062W
3P84	4822 051 30332	3.3Ω 5% 0.062W
3P85	4822 051 30272	2.7kΩ 5% 0.062W
3P86	4822 051 30331	330Ω 5% 0.062W
3P87	4822 051 30222	2.2kΩ 5% 0.062W
3P88	4822 051 30102	1kΩ 5% 0.062W
3P89	4822 051 30332	3.3Ω 5% 0.062W
3P90	4822 051 30154	150kΩ 5% 0.062W
3P91	4822 051 30333	33kΩ 5% 0.062W
3P92	4822 051 30102	1kΩ 5% 0.062W
3P93	4822 117 13632	100kΩ 1% 0603 0.62W
3P94	5322 117 13053	6.8kΩ 1% 0.063W 0603
3P96	4822 051 30222	2.2kΩ 5% 0.062W
3P97	5322 117 13053	6.8kΩ 1% 0.063W 0603
3P98	5322 117 13053	6.8kΩ 1% 0.063W 0603
3P99	5322 117 13046	1.8kΩ 1% 0.063W 0603
3PP1	4822 051 30103	10kΩ 5% 0.062W
3PP2	4822 051 30008	Jumper 0603
3PP3	2322 193 14104	100kΩ 5%
3PP4	4822 051 30223	22kΩ 5% 0.062W
3S08	2322 193 14278	2.7Ω 5%
3S14	4822 051 30222	2.2kΩ 5% 0.062W
3S15	4822 051 30103	10kΩ 5% 0.062W
3S16	4822 051 30101	100Ω 5% 0.062W
3S17	4822 051 20479	47Ω 5% 0.1W
3S18	4822 051 30102	1kΩ 5% 0.062W
3S19	4822 051 30008	Jumper 0603
3S20	4822 117 12864	82kΩ 5% 0.6W
3S21	4822 051 30102	1kΩ 5% 0.062W
3S22	4822 051 20479	47Ω 5% 0.1W
3S23	5322 117 13053	6.8kΩ 1% 0.063W 0603
3S24	5322 117 13053	6.8kΩ 1% 0.063W 0603
3S28	3198 021 32290	22Ω 5% 0603
3S29	4822 051 30471	47Ω 5% 0.062W
3S30	4822 051 30123	12kΩ 5% 0.1W
3S31	4822 051 30124	120kΩ 5% 0.062W
3S32	4822 051 30334	330kΩ 5% 0.062W
3S33	4822 051 30333	33kΩ 5% 0.062W
3S34	4822 051 30333	33kΩ 5% 0.062W
3S35	4822 051 30472	4.7Ω 5% 0.062W
3S36	4822 051 30472	4.7Ω 5% 0.062W
3S37	4822 051 30102	1kΩ 5% 0.062W
3S39	3198 021 34780	4.7Ω 5% 0603
3S41	4822 051 30471	47Ω 5% 0.062W
3S50	3198 021 32290	22Ω 5% 0603
3S51	2322 193 14104	100kΩ 5%
3S59	4822 117 12891	220kΩ 1%
3S76	4822 051 30103	10kΩ 5% 0.062W
3U01	4822 117 13632	100kΩ 1% 0603 0.62W
3U02	4822 051 30474	470kΩ 5% 0.062W
3U03	4822 051 30333	33kΩ 5% 0.062W
3U04	4822 051 30333	33kΩ 5% 0.062W
3U05	4822 051 30471	47Ω 5% 0.062W
3U06	4822 051 30123	12kΩ 5% 0.1W
3U07	3198 039 22090	22Ω 1%
3U08	2322 193 14477	0.47Ω 5%
3U09	2322 193 14477	0.47Ω 5%
3U10	4822 051 30102	1kΩ 5% 0.062W
3U12	4822 051 30102	1kΩ 5% 0.062W
3U13	5322 117 13053	6.8kΩ 1% 0.063W 0603
3U14	4822 051 30153	15kΩ 5% 0.062W
3U15	5322 117 13046	1.8kΩ 1% 0.063W 0603
3U16	4822 051 30273	27kΩ 5% 0.062W
3U17	4822 051 30472	4.7Ω 5% 0.062W
3U18	4822 051 30472	4.7Ω 5% 0.062W
3U19	4822 117 13613	2.2Ω 5% 0603
3U22	2322 193 14224	220kΩ 5%
3U23	4822 051 30563	56kΩ 5% 0.062W
3U25	2322 193 14224	220kΩ 5%
3U32	4822 053 10222	2.2kΩ 5% 1W
9001	3198 036 90010	Wire 0.58mm
9002	4822 051 30008	Jumper 0603
9003	3198 036 90010	Wire 0.58mm
9005	3198 036 90010	Wire 0.58mm
9006	3198 036 90010	Wire 0.58mm
9007	3198 036 90010	Wire 0.58mm
9009	4822 051 30008	Jumper 0603
9011	3198 036 90010	Wire 0.58mm
9012	3198 036 90010	Wire 0.58mm
9013	3198 036 90010	Wire 0.58mm
9014	3198 036 90010	Wire 0.58mm
9016	3198 036 90010	Wire 0.58mm
9017	3198 036 90010	Wire 0.58mm
9018	3198 036 90010	Wire 0.58mm
9019	3198 036 90010	Wire 0.58mm
9020	3198 036 90010	Wire 0.58mm
9021	3198 036 90010	Wire 0.58mm
9022	3198 036 90010	Wire 0.58mm
9023	3198 036 90010	Wire 0.58mm
9024	3198 036 90010	Wire 0.58mm
9025	3198 036 90010	Wire 0.58mm
9028	3198 036 90010	Wire 0.58mm
9029	3198 036 90010	Wire 0.58mm
9030	3198 036 90010	Wire 0.58mm
9031	3198 036 90010	Wire 0.58mm
9032	3198 036 90010	Wire 0.58mm
9033	3198 036 90010	Wire 0.58mm
9034	3198 036 90010	Wire 0.58mm
9035	3198 036 90010	Wire 0.58mm
9036	3198 036 90010	Wire 0.58mm
9037	3198 036 90010	Wire 0.58mm
9038	3198 036 90010	Wire 0.58mm
9040	3198 036 90010	Wire 0.58mm
9051	4822 051 30008	Jumper 0603
9056	3198 036 90010	Wire 0.58mm
9057	4822 051 30008	Jumper 0603
9059	3198 036 90010	Wire 0.58mm
9061	4822 051 20008	Jumper 0805
9071	4822 051 30008	Jumper 0603
9080	3198 036 90010	Wire 0.58mm
9081	3198 036 90010	Wire 0.58mm
9082	4822 051 30008	Jumper 0603
9083	3198 036 90010	Wire 0.58mm
9085	4822 051 30008	Jumper 0603
9092	3198 036 90010	Wire 0.58mm
9093	3198 036 90010	Wire 0.58mm
9098	3198 036 90010	Wire 0.58mm
9814	3198 036 90010	Wire 0.58mm
9815	3198 036 90010	Wire 0.58mm
9816	4822 051 30008	Jumper 0603
9817	3198 036 90010	Wire 0.58mm
9818	4822 051 30008	Jumper 0603
9819	3198 036 90010	Wire 0.58mm
9820	3198 036 90010	Wire 0.58mm
9821	3198 036 90010	Wire 0.58mm
9825	3198 036 90010	Wire 0.58mm

9P01	3198 036 90010	Wire 0.58mm
9P02	3198 036 90010	Wire 0.58mm
9P03	3198 036 90010	Wire 0.58mm
9P04	4822 051 30008	Jumper 0603
9P05	3198 036 90010	Wire 0.58mm
9P06	3198 036 90010	Wire 0.58mm
9P07	3198 036 90010	Wire 0.58mm
9P08	3198 036 90010	Wire 0.58mm
9P09	3198 036 90010	Wire 0.58mm
9P10	3198 036 90010	Wire 0.58mm
9P11	3198 036 90010	Wire 0.58mm
9P12	3198 036 90010	Wire 0.58mm
9P13	3198 036 90010	Wire 0.58mm
9P14	3198 036 90010	Wire 0.58mm
9P15	3198 036 90010	Wire 0.58mm
9P16	3198 036 90010	Wire 0.58mm
9P18	3198 036 90010	Wire 0.58mm
9P19	3198 036 90010	Wire 0.58mm
9P20	3198 036 90010	Wire 0.58mm
9P21	3198 036 90010	Wire 0.58mm
9P22	3198 036 90010	Wire 0.58mm
9P23	3198 036 90010	Wire 0.58mm
9P24	3198 036 90010	Wire 0.58mm
9P25	3198 036 90010	Wire 0.58mm
9P26	3198 036 90010	Wire 0.58mm
9P27	3198 036 90010	Wire 0.58mm
9P28	3198 036 90010	Wire 0.58mm
9P29	3198 036 90010	Wire 0.58mm
9P30	3198 036 90010	Wire 0.58mm
9P31	4822 051 20008	Jumper 0805
9P32	3198 036 90010	Wire 0.58mm
9P33	3198 036 90010	Wire 0.58mm
9P34	3198 036 90010	Wire 0.58mm
9P35	3198 036 90010	Wire 0.58mm
9P36	3198 036 90010	Wire 0.58mm
9P37	3198 036 90010	Wire 0.58mm
9P38	3198 036 90010	Wire 0.58mm
9P39	3198 036 90010	Wire 0.58mm
9P40	3198 036 90010	Wire 0.58mm
9P41	4822 051 30008	Jumper 0603
9P42	3198 036 90010	Wire 0.58mm
9P43	3198 036 90010	Wire 0.58mm
9P44	3198 036 90010	Wire 0.58mm
9P45	3198 036 90010	Wire 0.58mm
9P46	3198 036 90010	Wire 0.58mm
9P47	3198 036 90010	Wire 0.58mm
9P48	3198 036 90010	Wire 0.58mm
9P49	3198 036 90010	Wire 0.58mm
9P50	3198 036 90010	Wire 0.58mm
9P51	3198 036 90010	Wire 0.58mm
9P52	3198 036 90010	Wire 0.58mm
9P53	3198 036 90010	Wire 0.58mm
9P54	3198 036 90010	Wire 0.58mm
9P55	3198 036 90010	Wire 0.58mm
9P56	3198 036 90010	Wire 0.58mm
9P57	3198 036 90010	Wire 0.58mm
9P58	4822 051 20008	Jumper 0805
9P62	3198 036 90010	Wire 0.58mm
9P65	3198 036 90010	Wire 0.58mm
9P75	3198 036 90010	Wire 0.58mm
9P76	3198 036 90010	Wire 0.58mm
9S01	4822 051 30008	Jumper 0603
9S03	3198 036 90010	Wire 0.58mm
9S16	3198 036 90010	Wire 0.58mm
9S17	3198 036 90010	Wire 0.58mm
9S18	3198 036 90010	Wire 0.58mm
9S20	3198 036 90010	Wire 0.58mm
9S25	3198 036 90010	Wire 0.58mm
9U01	3198 036 90010	Wire 0.58mm
9U02	3198 036 90010	Wire 0.58mm
9U03	3198 036 90010	Wire 0.58mm
9U04	3198 036 90010	Wire 0.58mm
9U10	3198 036 90010	Wire 0.58mm
9U18	3198 036 90010	Wire 0.58mm

5001	2422 531 02444	S13932-04Y
5002⚠	2422 531 00096	Transformer SMT SLOT
5005	4822 526 10704	Bead 50 Ω at 100MHz
5007	4822 526 10704	Bead 50 Ω at 100MHz
5008	4822 526 10704	Bead 50 Ω at 100MHz
5009	4822 157 11411	Bead 80Ω at 100MHz
5010	4822 157 11411	Bead 80Ω at 100MHz
5013	4822 526 10704	Bead 50 Ω at 100MHz
5015	4822 157 11411	Bead 80Ω at 100MHz
5016	4822 157 11411	Bead 80Ω at 100MHz
5017	4822 526 10704	Bead 50 Ω at 100MHz
5025	4822 526 10704	Bead 50 Ω at 100MHz
5026	4822 526 10704	Bead 50 Ω at 100MHz
5027	4822 526 10704	Bead 50 Ω at 100MHz
5028	4822 526 10704	Bead 50 Ω at 100MHz
5040	4822 157 11411	Bead 80Ω at 100MHz
5403	3104 308 21201	Line filter DTH40383H65
5405⚠	4822 157 11523	Line filter 5mH/2A
5P00	2422 531 00134	BS25504-02B
5P01	2422 531 00134	BS25504-02B
5P03	4822 157 50961	22µH
5P04	4822 157 11411	Bead 80Ω at 100MHz
5P05	4822 526 10704	Bead 50 Ω at 100MHz
5P06	4822 157 11411	Bead 80Ω at 100MHz
5P07	4822 157 11411	Bead 80Ω at 100MHz
5P08	4822 526 10704	Bead 50 Ω at 100MHz
5P10	2422 549 00169	Bead 45Ω at 100MHz
5P11	2422 549 00169	Bead 45Ω at 100MHz
5P12	2422 549 00169	Bead 45Ω at 100MHz
5P13	2422 549 00169	Bead 45Ω at 100MHz
5P16	4822 157 11411	Bead 80Ω at 100MHz
5P18	2422 535 94636	3.3µF 20%
5P19	2422 535 94636	3.3µF 20%
5P20	2422 535 94636	3.3µF 20%
5P21	2422 549 44197	Bead 220Ω at 100MHz
5P22	2422 549 44197	Bead 220Ω at 100MHz
5P23	2422 549 44197	Bead 220Ω at 100MHz
5P24	2422 549 44197	Bead 220Ω at 100MHz
5P25	4822 157 11716	Bead 30Ω at 100MHz
5P26	4822 157 11716	Bead 30Ω at 100MHz
5P27	4822 157 11716	Bead 30Ω at 100MHz
5P28	4822 157 11716	Bead 30Ω at 100MHz
5P40	2422 549 44197	Bead 220Ω at 100MHz
5P41	2422 549 44197	Bead 220Ω at 100MHz
5P42	2422 549 44197	Bead 220Ω at 100MHz
5P43	2422 549 44197	Bead 220Ω at 100MHz
5S00	3104 308 21181	BS25320-00
5S01	3198 018 31090	10µH 10% 0805
5S03	4822 526 10704	Bead 50 Ω at 100MHz
5S05	4822 157 11411	Bead 80Ω at 100MHz
5S08	4822 526 10704	Bead 50 Ω at 100MHz
5S09	4822 157 11411	Bead 80Ω at 100MHz
5S10	2422 549 43769	Bead 30Ω at 100MHz
5S11	4822 157 11411	Bead 80Ω at 100MHz
5S12	4822 526 10704	Bead 50 Ω at 100MHz
5S14	2422 549 44197	Bead 220Ω at 100MHz
5S15	2422 549 44197	Bead 220Ω at 100MHz
5S16	4822 157 11716	Bead 30Ω at 100MHz
5U00	2422 531 00123	Transf. 2452.7007A
5U01	2422 549 44197	Bead 220Ω at 100MHz
5U02	2422 549 44197	Bead 220Ω at 100MHz
5U03	4822 157 11411	Bead 80Ω at 100MHz
5U04	2422 536 00776	33µH 10%
5U05	4822 157 11411	Bead 80Ω at 100MHz
5U06	4822 157 11441	22µH 5%
5U07	4822 051 30008	Jumper 0603
5U08	2422 549 43769	Bead 30Ω at 100MHz
5U10	4822 157 11411	Bead 80Ω at 100MHz
5U11	2422 549 44197	Bead 220Ω at 100MHz
5U12	2422 549 44197	Bead 220Ω at 100MHz
5U17	2422 536 00433	15µH 10%

6002	4822 130 11397	BAS316
6003	4822 130 11397	BAS316
6004	4822 130 80622	BAT54
6005	4822 130 80622	BAT54
6006	4822 130 11397	BAS316
6007	4822 130 11397	BAS316
6008	4822 130 11397	BAS316
6009	4822 130 11152	UDZ18B
6010	4822 130 11397	BAS316
6011	4822 130 11397	BAS316
6012	9322 208 80685	BZG05C15
6013	9322 208 80685	BZG05C15
6017	4822 130 11397	BAS316
6020	4822 130 11397	BAS316
6021	9322 206 26687	STPS20H100CT
6022	4822 130 11148	UDZ4.7B
6023	4822 130 11397	BAS316
6024	9340 548 67115	PDZ22B
6025	9322 206 26687	STPS20H100CT
6026	4822 130 11152	UDZ18B
6027	4822 130 11397	BAS316
6028	4822 130 11397	BAS316
6044	9322 207 11687	STPS20L45CT
6051	4822 130 11397	BAS316
6077	9322 202 55685	BYG22D
6078	9322 202 55685	BYG22D
6079	9322 202 55685	BYG22D
6080	9322 202 55685	BYG22D
6081	9340 548 67115	PDZ22B
6083	4822 130 11397	BAS316
6460	4822 130 11397	BAS316
6461	4822 130 11397	BAS316
6464	4822 130 11397	BAS316
6465	9340 292 50135	BZG03-C200
6466	9340 292 50135	BZG03-C200
6467	9340 548 71115	PDZ33B
6807⚠	3104 307 09981	932223700682
6807⚠	9322 237 00682	Bridge TS6B05G-06
6807⚠	9322 246 54682	TS6B05G-07
6P01	9322 203 12673	BYV27-600
6P02	9322 203 12673	BYV27-600
6P03	9322 208 83685	BZG05C27
6P04	9322 208 83685	BZG05C27
6P05⚠	9322 227 41687	Bridge GBL06L-7000E3
6P06	9322 099 61685	BYG10J
6P07	9322 099 61685	BYG10J
6P09	4822 130 11522	UDZ15B
6P10	9322 202 75687	BYW29FP-200
6P11	9322 202 75687	BYW29FP-200
6P12	9322 202 75687	BYW29FP-200
6P13	9322 202 75687	BYW29FP-200
6P22	4822 130 11522	UDZ15B
6P23	4822 130 11522	UDZ15B
6P27	9322 202 55685	BYG22D
6P28	4822 130 11397	BAS316
6P31	4822 130 11522	UDZ15B
6P34	4822 130 11397	BAS316
6P47	9322 208 44685	BZG05C6V8
6P50	4822 130 11522	UDZ15B
6P51	4822 130 11416	PDZ6.8B
6P53	4822 130 11397	BAS316
6P80	4822 130 11397	BAS316
6P81	4822 130 11152	UDZ18B
6P82	4822 130 11397	BAS316
6P83	4822 130 11397	BAS316
6P84	4822 130 11397	BAS316
6P85	4822 130 11397	BAS316
6P86	4822 130 11397	BAS316
6S01	5322 130 31938	BYV27-200
6S04	9340 548 69115	PDZ27B
6S05	4822 130 11522	UDZ15B
6S07	4822 130 11572	STPS8H100F
6S09	4822 130 11522	UDZ15B
6S10	9322 102 64685	UDZ2.7B
6S11	4822 130 11397	BAS316
6S12	9322 202 55685	BYG22D
6S13	4822 130 11397	BAS316
6S30	9322 203 12673	BYV27-600
6S31	4822 130 11522	UDZ15B
6S47	9322 208 44685	BZG05C6V8
6S49	3198 020 55680	BZX384-C5V6
6U02	4822 130 11397	BAS316
6U03	9322 202 55685	BYG22D
6U05	4822 130 11522	UDZ15B
6U07	4822 130 11596	BYW29EX-200
6U09	4822 130 83147	DF06M
6U11	4822 130 11397	BAS316
6U15	4822 130 11522	UDZ15B
6U22	9322 224 44673	BYV26EGP-E3

7001	9322 108 21682	MC34067P
7002⚠	9322 149 04682	TCET1102
7004	3198 010 42310	BC847BW
7005	9322 205 26687	FQPF18N50V2
7006	9322 205 26687	FQPF18N50V2
7007	3198 010 42320	BC857BW
7008	3198 010 42320	BC857BW
7009	3198 010 42320	BC857BW
7010	9322 192 16685	TS2431AI
7013	3198 010 42310	BC847BW
7014	3198 010 42310	BC847BW
7017	3198 010 42320	BC857BW
7018	3198 010 42310	BC847BW
7030	3198 010 42310	BC847BW
7801	9340 219 30115	BC817-25W
7802	3198 010 42310	BC847BW
7807⚠	9322 149 04682	TCET1102
7P02	9322 194 26687	STP6NK60Z
7P03	9322 192 16685	TS2431AI
7P04	3198 010 42310	BC847BW
7P06	9340 219 30115	BC817-25W
7P07	3198 010 42320	BC857BW
7P09	3198 010 42310	BC847BW
7P10	3198 010 42310	BC847BW
7P11⚠	9322 149 04682	TCET1102
7P12⚠	9322 149 04682	TCET1102
7P14	9340 557 69127	PHX9NQ20T
7P15	3198 010 42310	BC847BW
7P16	9322 192 16685	TS2431AI
7P19	3198 010 42310	BC847BW
7P20	9340 436 50115	BSP030
7P21	3198 010 42310	BC847BW
7P22	3198 010 42320	BC857BW
7P23	9340 436 50115	BSP030
7P24	3198 010 42320	BC857BW
7P26	9340 219 30115	BC817-25W

7P27	9352 743 34518	TEA1506AT/N1
7P38	3198 010 42310	BC847BW
7P80	3198 010 42310	BC847BW
7P81	9322 192 16685	TS2431AI
7P82	3198 010 42320	BC857BW
7S02	9322 194 26687	STP6NK60Z
7S03⚠	9322 149 04682	TCET1102
7S04	9322 192 16685	TS2431AI
7S10	9352 700 18518	TEA1533AT/N1
7S11	9340 219 30115	BC817-25W
7S31	9340 436 50115	BSP030
7S40	3198 010 42310	BC847BW
7U01⚠	9322 149 04682	TCET1102
7U02	9322 206 17687	FET STP4NK80ZFP
7U05	9322 192 16685	TS2431AI
7U10	9352 700 18518	TEA1533AT/N1
7U15	9340 219 30115	BC817-25W

Ambi Light Inverter Board [AL]

Various

1010⚠	2422 086 00657	Fuse 3A 125V F SMD
1011⚠	2422 086 00657	Fuse 3A 125V F SMD
1060	2422 543 01431	Xtal 20MHz 16pF
1M08	2422 025 08149	Connector 6p m
1M09	2422 025 09406	Connector 4p m
1M10	2422 025 08149	Connector 6p m
1M11	2422 025 19068	Connector 11p m
1M12	2422 025 09406	Connector 4p m
1M13	2422 025 19068	Connector 11p m
1M15	2422 025 19069	Connector 3p m
1M16	2422 025 19069	Connector 3p m
1M39	2422 025 10768	Connector 3p m
1M49	2422 025 18884	Connector 4p m
1M59	2422 025 19265	Connector 5p m Bk

⊣⊢

2001	2020 012 00018	1000µF 20% 16V
2002	2238 586 59812	100nF 20% 50V 0603
2013	2238 916 15641	22nF 10% 25V 0603
2014	2238 916 15641	22nF 10% 25V 0603
2015	2238 916 15641	22nF 10% 25V 0603
2016	3198 034 01590	15pF 1% 50V 0402
2017	5322 126 11578	1nF 10% 50V 0603
2018	5322 126 11578	1nF 10% 50V 0603
2019	5322 126 11578	1nF 10% 50V 0603
2023	5322 126 11578	1nF 10% 50V 0603
2024	2238 586 59812	100nF 20% 50V 0603
2073	3198 034 01590	15pF 1% 50V 0402
2078	5322 126 11583	10nF 10% 50V 0603
2086	5322 126 11578	1nF 10% 50V 0603
2101	2020 012 00018	1000µF 20% 16V
2102	2238 586 59812	100nF 20% 50V 0603
2113	2238 916 15641	22nF 10% 25V 0603
2114	2238 916 15641	22nF 10% 25V 0603
2115	2238 916 15641	22nF 10% 25V 0603
2173	5322 126 11583	10nF 10% 50V 0603
2174	5322 126 11583	10nF 10% 50V 0603
2177	5322 126 11578	1nF 10% 50V 0603
2200	5322 126 10223	4.7nF 10% 63V
2201	2020 552 96684	470nF 10% 25V 0805
2202	5322 126 10223	4.7nF 10% 63V

-ww-

3004	4822 051 20471	470Ω 5% 0.1W
3005	4822 051 20561	560Ω 5% 0.1W
3006	2322 762 60102	1kΩ 5% 2512
3007	2322 762 60102	1kΩ 5% 2512
3008	4822 051 20471	470Ω 5% 0.1W
3009	4822 051 20561	560Ω 5% 0.1W
3010	2322 762 60102	1kΩ 5% 2512
3011	2322 762 60102	1kΩ 5% 2512
3012	4822 051 20471	470Ω 5% 0.1W
3013	4822 051 20561	560Ω 5% 0.1W
3014	2322 762 60102	1kΩ 5% 2512
3015	2322 762 60102	1kΩ 5% 2512
3016	4822 051 30472	4.7Ω 5% 0.062W
3017	4822 051 30472	4.7Ω 5% 0.062W
3018	4822 051 30472	4.7Ω 5% 0.062W
3019	4822 051 30472	4.7Ω 5% 0.062W
3020	4822 051 30472	4.7Ω 5% 0.062W
3021	4822 051 30101	100Ω 5% 0.062W
3022	4822 051 30472	4.7Ω 5% 0.062W
3023	4822 051 30101	100Ω 5% 0.062W
3024	4822 051 30472	4.7Ω 5% 0.062W
3025	4822 051 30472	4.7Ω 5% 0.062W
3027	5322 117 13028	12kΩ 1% 0.063W 0603
3028	4822 051 30103	10kΩ 5% 0.062W
3029	4822 051 30472	4.7Ω 5% 0.062W
3030	4822 051 30472	4.7Ω 5% 0.062W
3031	4822 051 30472	4.7Ω 5% 0.062W
3032	4822 053 20105	1MΩ 5% 0.25W
3034	4822 051 30479	47Ω 5% 0.062W
3035	4822 051 30479	47Ω 5% 0.062W
3036	4822 051 30479	47Ω 5% 0.062W
3037	4822 051 30561	560Ω 5% 0.062W
3038	4822 051 30561	560Ω 5% 0.062W
3039	4822 051 30103	10kΩ 5% 0.062W
3041	4822 051 30221	220Ω 5% 0.062W
3042	2120 108 00311	180kΩ 5% 1206
3043	2120 108 00311	180kΩ 5% 1206
3044	2120 108 00311	180kΩ 5% 1206
3045	2120 108 00311	180kΩ 5% 1206
3046	2120 108 00311	180kΩ 5% 1206
3047	2120 108 00311	180kΩ 5% 1206
3060	4822 051 20332	2.3kΩ 5% 0.1W
3061	4822 051 20332	2.3kΩ 5% 0.1W
3062	4822 051 20332	2.3kΩ 5% 0.1W
3064	4822 051 30683	68kΩ 5% 0.062W
3065	4822 051 30683	68kΩ 5% 0.062W
3104	4822 051 20471	470Ω 5% 0.1W
3105	4822 051 20561	560Ω 5% 0.1W
3106	2322 762 60102	1kΩ 5% 2512
3107	2322 762 60102	1kΩ 5% 2512
3108	4822 051 20471	470Ω 5% 0.1W
3109	4822 051 20561	560Ω 5% 0.1W
3110	2322 762 60102	1kΩ 5% 2512
3111	2322 762 60102	1kΩ 5% 2512
3112	4822 051 20471	470Ω 5% 0.1W
3113	4822 051 20561	560Ω 5% 0.1W
3114	2322 762 60102	1kΩ 5% 2512
3115	2322 762 60102	1kΩ 5% 2512
3117	4822 051 30472	4.7Ω 5% 0.062W
3118	4822 051 30472	4.7Ω 5% 0.062W
3119	4822 051 30472	4.7Ω 5% 0.062W
3120	4822 051 30472	4.7Ω 5% 0.062W
3124	4822 051 30472	4.7Ω 5% 0.062W
3125	4822 051 30472	4.7Ω 5% 0.062W
3129	4822 051 30472	4.7Ω 5% 0.062W
3130	4822 051 30472	4.7Ω 5% 0.062W
3131	4822 051 30472	4.7Ω 5% 0.062W
3132	4822 051 30479	47Ω 5% 0.062W
3133	4822 051 30479	47Ω 5% 0.062W
3134	4822 051 30479	47Ω 5% 0.062W
3136	4822 117 12925	47kΩ 1% 0.063W 0603
3137	5322 117 13028	12kΩ 1% 0.063W 0603
3150	4822 051 20332	2.3kΩ 5% 0.1W
3151	4822 051 20332	2.3kΩ 5% 0.1W
3152	4822 051 20332	2.3kΩ 5% 0.1W
3153	4822 051 30101	100Ω 5% 0.062W
3154	4822 051 30101	100Ω 5% 0.062W
3155	4822 051 30333	33kΩ 5% 0.062W
3156	4822 051 30103	10kΩ 5% 0.062W
3157	4822 051 30101	100Ω 5% 0.062W
3160	4822 051 30103	10kΩ 5% 0.062W
3161	4822 051 30101	100Ω 5% 0.062W
3162	4822 051 30101	100Ω 5% 0.062W
3163	4822 051 30101	100Ω 5% 0.062W
3164	4822 051 30333	33kΩ 5% 0.062W
3200	4822 051 10102	1kΩ 2% 0.25W
3201	4822 051 10102	1kΩ 2% 0.25W
3202	4822 051 30479	47Ω 5% 0.062W
3203	4822 051 20105	1MΩ 5% 0.1W
3204	4822 051 30103	10kΩ 5% 0.062W
3205	4822 051 30102	1kΩ 5% 0.062W
3206	4822 051 30221	220Ω 5% 0.062W
3207	4822 051 30223	22kΩ 5% 0.062W
3208	4822 051 10102	1kΩ 2% 0.25W
3209	4822 051 10102	1kΩ 2% 0.25W
3210	4822 051 30479	47Ω 5% 0.062W
3211	4822 051 20105	1MΩ 5% 0.1W
3212	4822 051 30221	220Ω 5% 0.062W
9000	4822 051 30008	Jumper 0603
9001	4822 051 10008	Jumper 1206

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5002	2422 536 00923	22µH 10% LHL10
5007	2422 536 00923	22µH 10% LHL10
5008	2422 536 00923	22µH 10% LHL10
5011	2422 549 42896	Bead 120Ω 100MHz
5014	2422 531 00142	BD21506-02
5015	2422 531 00142	BD21506-02
5016	2422 531 00142	BD21506-02
5102	2422 536 00923	22µH 10% LHL10
5107	2422 536 00923	22µH 10% LHL10
5108	2422 536 00923	22µH 10% LHL10
5114	2422 531 00142	BD21506-02
5115	2422 531 00142	BD21506-02
5116	2422 531 00142	BD21506-02
5200	2422 549 42896	Bead 120Ω 100MHz
5201	4822 526 10697	MMZ2012S601AT
5202	4822 526 10697	MMZ2012S601AT
5203	2422 549 42896	Bead 120Ω 100MHz
5204	4822 526 10697	MMZ2012S601AT
5205	4822 526 10697	MMZ2012S601AT

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6000	4822 130 11397	BAS316
6001	4822 130 11397	BAS316
6002	4822 130 11397	BAS316
6003	4822 130 11397	BAS316
6004	4822 130 11397	BAS316
6005	4822 130 11397	BAS316
6006	4822 130 11152	UDZ18B
6007	4822 130 11152	UDZ18B
6008	4822 130 11152	UDZ18B
6009	4822 130 11152	UDZ18B
6010	4822 130 11152	UDZ18B
6011	4822 130 11152	UDZ18B
6013	4822 130 11397	BAS316
6014	4822 130 11397	BAS316
6015	4822 130 11397	BAS316
6016	4822 130 11397	BAS316
6017	4822 130 11522	UDZ15B
6018	4822 130 11397	BAS316
6019	4822 130 11551	UDZS10B
6020	4822 130 11397	BAS316
6100	4822 130 11397	BAS316
6101	4822 130 11397	BAS316
6102	4822 130 11397	BAS316
6103	4822 130 11397	BAS316
6104	4822 130 11397	BAS316
6105	4822 130 11397	BAS316
6106	4822 130 11152	UDZ18B
6107	4822 130 11152	UDZ18B
6108	4822 130 11152	UDZ18B
6109	4822 130 11152	UDZ18B
6110	4822 130 11152	UDZ18B
6111	4822 130 11152	UDZ18B
6112	4822 130 11148	UDZ4.7B
6113	4822 130 11397	BAS316
6114	4822 130 11397	BAS316
6115	4822 130 11397	BAS316
6117	4822 130 11397	BAS316
6118	4822 130 11551	UDZS10B
6119	4822 130 11397	BAS316
6120	4822 130 11397	BAS316
6121	4822 130 11397	BAS316
6200	4822 130 11397	BAS316
6201	4822 130 11397	BAS316
6202	4822 130 11416	PDZ6.8B
6203	4822 130 11397	BAS316
6204	4822 130 11397	BAS316
6205	4822 130 11416	PDZ6.8B
6206	9322 129 41685	BZM55-C12

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7002	9322 202 58668	LD1117DT50
7009	3198 010 42310	BC847BW
7010	3198 010 42310	BC847BW
7011	3198 010 42310	BC847BW
7015	9322 214 20668	SI4946EY
7016	9322 214 20668	SI4946EY
7017	9322 214 20668	SI4946EY
7018	3198 010 42310	BC847BW
7019	3198 010 42310	BC847BW
7020	3198 010 42310	BC847BW
7109	3198 010 42310	BC847BW
7110	3198 010 42310	BC847BW
7111	3198 010 42310	BC847BW
7115	9322 214 20668	SI4946EY
7116	9322 214 20668	SI4946EY
7117	9322 214 20668	SI4946EY
7118	3198 010 42310	BC847BW
7119	3198 010 42310	BC847BW
7120	3198 010 42310	BC847BW
7130	9340 425 10115	BC857BS
7132	9340 425 10115	BC857BS
7200	9322 217 55685	FET SI2302ADS-E3
7201⚠	9322 149 04682	TCET1102
7202	9322 217 55685	FET SI2302ADS-E3

Platform Supply Panel 42" [AP]

Various

1F10	4822 267 10565	Connector 4p
1M02	2422 025 11244	Connector 7p m
1M03	2422 025 10771	Connector 10p m

1M10	2422 025 08149	Connector 6p m
1M46	2422 025 10655	Connector 11p m
1M63	2422 025 09405	Connector 2p m
1P02	2422 025 16374	Connector 2p m
1P03▲	2422 086 00717	Fuse 1.6A T 250V
1P06▲	2422 086 00678	Fuse 5A T 250V
1P07▲	2422 086 00678	Fuse 5A T 250V
1P10	4822 267 10557	Connector 10p
1P22	4822 265 20723	Connector 2p
1P30▲	2422 086 00663	Fuse 1A T 250V

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2F00	2020 024 90753	100µF 450V 20%
2P01	2022 552 05679	1µF 10% 16V 0805
2P02	4822 122 33177	10nF 20% 50V
2P03	2022 552 05679	1µF 10% 16V 0805
2P04	2022 552 05679	1µF 10% 16V 0805
2P05	4822 124 81151	22µF 50V
2P06▲	2022 554 04154	220pF 10% 250V
2P11	2022 552 05679	1µF 10% 16V 0805
2P12	2238 586 59812	100nF 20% 50V 0603
2P13	2238 586 59812	100nF 20% 50V 0603
2P14	4822 121 70162	10nF 5% 400V
2P21	2238 586 59812	100nF 20% 50V 0603
2P22	2020 552 96683	220nF 10% 50V
2P23	5322 126 11578	1nF 10% 50V 0603
2P24	2022 552 05679	1µF 10% 16V 0805
2P25	2252 053 63221	220pF 10% 200V 0805
2P26	2020 552 96683	220nF 10% 50V
2P27	3198 038 41020	1000µF 20% 35V
2P28	3198 038 41020	1000µF 20% 35V
2P29	3198 038 41020	1000µF 20% 35V
2P30	3198 038 41020	1000µF 20% 35V
2P31	2238 586 59812	100nF 20% 50V 0603
2P33	2238 586 59812	100nF 20% 50V 0603
2P34	2020 552 96683	220nF 10% 50V
2P35	2020 552 96683	220nF 10% 50V
2P36	2238 586 59812	100nF 20% 50V 0603
2P37	2238 586 59812	100nF 20% 50V 0603
2P38	2238 586 59812	100nF 20% 50V 0603
2P39	5322 126 11583	10nF 10% 50V 0603
2P42	2252 053 63221	220pF 10% 200V 0805
2P43	2252 053 63221	220pF 10% 200V 0805
2P45	2238 586 59812	100nF 20% 50V 0603
2P47	4822 124 80061	1000µF 20% 25V
2P48	4822 124 80061	1000µF 20% 25V
2P49	4822 124 80061	1000µF 20% 25V
2P50	4822 124 80061	1000µF 20% 25V
2P53	2020 552 94427	100pF 5% 50V
2P55	2020 552 96683	220nF 10% 50V
2P57	2020 552 96683	220nF 10% 50V
2P64	2252 053 63221	220pF 10% 200V 0805
2P80	2020 552 96683	220nF 10% 50V
2S04	4822 126 13682	100pF 5% 1kV
2S06▲	2022 554 04154	220pF 10% 250V
2S07	3198 017 34730	47nF 16V 0603
2S13	2222 930 56627	2.2nF 10% 200V 0805
2S14	4822 124 12379	220µF 25V
2S15	2022 552 05679	1µF 10% 16V 0805
2S16	4822 124 81151	22µF 50V
2S17	4822 124 81151	22µF 50V
2S18	3198 017 34730	47nF 16V 0603
2S33	4822 124 40207	100µF 20% 25V
2S39	2022 552 05679	1µF 10% 16V 0805
2S40	4822 121 70162	10nF 5% 400V
2S41	2020 552 96683	220nF 10% 50V
2S50	2020 021 91668	2200µF 20% 10V
2S52	4822 121 70162	10nF 5% 400V
2S54	3198 017 31530	15nF 20% 50V 0603
2S56	2020 552 96683	220nF 10% 50V

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3999	4822 051 30472	4.7Ω 5% 0.062W
3F01	2322 251 41229	22Ω 5% 5W
3F02	2322 251 41229	22Ω 5% 5W
3F04	2322 251 41109	10Ω 5% 5W
3F05	3198 012 24730	47kΩ 5%
3F06	3198 012 24730	47kΩ 5%
3P00	4822 117 10833	10kΩ 1% 0.1W
3P01	4822 117 10833	10kΩ 1% 0.1W
3P02	4822 117 10833	10kΩ 1% 0.1W
3P03	4822 117 10833	10kΩ 1% 0.1W
3P04	2322 734 63309	33Ω 1% 0.1W 0805
3P05	4822 051 30223	22kΩ 5% 0.062W
3P08	2322 193 14477	0.47Ω 5%
3P09	4822 051 30223	22kΩ 5% 0.062W
3P10	4822 051 30223	22kΩ 5% 0.062W
3P11	4822 117 13632	100kΩ 1% 0603 0.62W
3P12	4822 051 30474	470kΩ 5% 0.062W
3P13	4822 117 12925	47kΩ 1% 0.063W 0603

3P14	4822 117 12925	47kΩ 1% 0.063W 0603
3P15	4822 051 30102	1kΩ 5% 0.062W
3P16	4822 051 30109	10Ω 5% 0.062W
3P17	4822 051 30223	22kΩ 5% 0.062W
3P18	4822 051 30223	22kΩ 5% 0.062W
3P19	4822 117 12891	220kΩ 1%
3P20	4822 051 30103	10kΩ 5% 0.062W
3P21	4822 051 30103	10kΩ 5% 0.062W
3P22	4822 051 30474	470kΩ 5% 0.062W
3P23	5322 117 13053	6.8kΩ 1% 0.063W 0603
3P24	4822 117 12891	220kΩ 1%
3P26	4822 051 30103	10kΩ 5% 0.062W
3P27	4822 051 30123	12kΩ 5% 0.1W
3P28	3198 012 24730	47kΩ 5%
3P29	4822 053 11471	470Ω 5% 2W
3P30	4822 117 13632	100kΩ 1% 0603 0.62W
3P31	4822 051 30102	1kΩ 5% 0.062W
3P33	4822 051 30471	47Ω 5% 0.062W
3P34	4822 051 30222	2.2kΩ 5% 0.062W
3P36	4822 051 30471	47Ω 5% 0.062W
3P38	4822 117 12925	47kΩ 1% 0.063W 0603
3P39	4822 117 12925	47kΩ 1% 0.063W 0603
3P40	4822 051 30563	56kΩ 5% 0.062W
3P40	4822 051 30683	68kΩ 5% 0.062W
3P40	4822 117 12925	47kΩ 1% 0.063W 0603
3P41	4822 117 12891	220kΩ 1%
3P42	4822 051 30222	2.2kΩ 5% 0.062W
3P43	4822 051 30222	2.2kΩ 5% 0.062W
3P44	4822 051 30222	2.2kΩ 5% 0.062W
3P45	4822 051 30105	1MΩ 5% 0.062W
3P46	4822 117 12925	47kΩ 1% 0.063W 0603
3P47	4822 051 30472	4.7Ω 5% 0.062W
3P48	2322 734 63309	33Ω 1% 0.1W 0805
3P49	4822 051 30008	Jumper 0603
3P50	4822 117 12971	15Ω 5% 0603 0.62W
3P51	4822 117 13632	100kΩ 1% 0603 0.62W
3P52	4822 051 30103	10kΩ 5% 0.062W
3P53	4822 051 30223	22kΩ 5% 0.062W
3P54	4822 051 30103	10kΩ 5% 0.062W
3P55	4822 051 30331	330Ω 5% 0.062W
3P57	3198 012 22280	2.2Ω 5% 2W
3P57	4822 053 11158	1R50 5% 2W
3P58	3198 012 22280	2.2Ω 5% 2W
3P59	4822 051 30102	1kΩ 5% 0.062W
3P60	2322 193 14477	0.47Ω 5%
3P61	4822 051 30471	47Ω 5% 0.062W
3P62	4822 051 30102	1kΩ 5% 0.062W
3P63	4822 051 30102	1kΩ 5% 0.062W
3P64	2322 704 65603	65kΩ 0603
3P64	4822 117 12925	47kΩ 1% 0.063W 0603
3P65	2122 118 07025	6.81kΩ 0603
3P65	5322 117 13053	6.8kΩ 1% 0.063W 0603
3P66	2122 118 07024	1.78kΩ 0603
3P66	5322 117 13046	1.8kΩ 1% 0.063W 0603
3P68	4822 051 30223	22kΩ 5% 0.062W
3P69	4822 051 30008	Jumper 0603
3P70	4822 051 30223	22kΩ 5% 0.062W
3P71	4822 051 30102	1kΩ 5% 0.062W
3P72	4822 051 30334	330kΩ 5% 0.062W
3P73	4822 051 30223	22kΩ 5% 0.062W
3P74	4822 051 30223	22kΩ 5% 0.062W
3P75	4822 051 30472	4.7Ω 5% 0.062W
3P76	4822 117 12891	220kΩ 1%
3P77	2322 193 14332	3.3kΩ 5% 1W
3P78	4822 051 30472	4.7Ω 5% 0.062W
3P79	4822 051 30272	2.7kΩ 5% 0.062W
3P80	4822 051 30272	2.7kΩ 5% 0.062W
3P81	4822 051 30223	22kΩ 5% 0.062W
3P82	4822 051 30222	2.2kΩ 5% 0.062W
3P83	4822 051 30332	3.3Ω 5% 0.062W
3P84	4822 051 30332	3.3Ω 5% 0.062W
3P85	4822 051 30272	2.7kΩ 5% 0.062W
3P86	4822 051 30331	330Ω 5% 0.062W
3P87	4822 051 30222	2.2kΩ 5% 0.062W
3P88	4822 051 30102	1kΩ 5% 0.062W
3P89	4822 051 30332	3.3Ω 5% 0.062W
3P90	4822 051 30154	150kΩ 5% 0.062W
3P91	4822 051 30333	33kΩ 5% 0.062W
3P92	4822 051 30102	1kΩ 5% 0.062W
3P93	4822 117 13632	100kΩ 1% 0603 0.62W
3P94	5322 117 13053	6.8kΩ 1% 0.063W 0603
3P96	4822 051 30222	2.2kΩ 5% 0.062W
3P97	5322 117 13053	6.8kΩ 1% 0.063W 0603
3P98	5322 117 13053	6.8kΩ 1% 0.063W 0603
3P99	5322 117 13046	1.8kΩ 1% 0.063W 0603
3S01	4822 051 30103	10kΩ 5% 0.062W
3S02	4822 051 30103	10kΩ 5% 0.062W
3S03	4822 051 30103	10kΩ 5% 0.062W
3S04	4822 051 30103	10kΩ 5% 0.062W
3S08	2322 193 14278	2.7Ω 5%
3S14	4822 051 30222	2.2kΩ 5% 0.062W
3S15	4822 051 30103	10kΩ 5% 0.062W
3S16	4822 051 30101	100Ω 5% 0.062W
3S17	4822 051 20479	47Ω 5% 0.1W

3S18	4822 051 30102	1kΩ 5% 0.062W
3S19	4822 051 30008	Jumper 0603
3S20	4822 117 12864	82kΩ 5% 0.6W
3S21	4822 051 30102	1kΩ 5% 0.062W
3S22	4822 051 20479	47Ω 5% 0.1W
3S23	5322 117 13053	6.8kΩ 1% 0.063W 0603
3S24	5322 117 13053	6.8kΩ 1% 0.063W 0603
3S28	3198 021 32290	22Ω 5% 0603
3S29	4822 051 30471	47Ω 5% 0.062W
3S30	4822 051 30123	12kΩ 5% 0.1W
3S31	4822 051 30124	120kΩ 5% 0.062W
3S32	4822 051 30334	330kΩ 5% 0.062W
3S33	4822 051 30333	33kΩ 5% 0.062W
3S34	4822 051 30333	33kΩ 5% 0.062W
3S35	4822 051 30472	4.7Ω 5% 0.062W
3S36	4822 051 30472	4.7Ω 5% 0.062W
3S37	4822 051 30102	1kΩ 5% 0.062W
3S39	3198 021 34780	4.7Ω 5% 0603
3S41	4822 051 30471	47Ω 5% 0.062W
3S50	3198 021 32290	22Ω 5% 0603
3S51	2322 193 14104	100kΩ 5%
3S59	4822 117 12891	220kΩ 1%
3S76	4822 051 30103	10kΩ 5% 0.062W
9DD6	3198 036 90010	Wire 0.58mm
9DD7	3198 036 90010	Wire 0.58mm
9DD8	3198 036 90010	Wire 0.58mm
9F00	3198 036 90010	Wire 0.58mm
9F01	3198 036 90010	Wire 0.58mm
9P01	3198 036 90010	Wire 0.58mm
9P02	3198 036 90010	Wire 0.58mm
9P03	4822 051 30008	Jumper 0603
9P04	4822 051 20008	Jumper 0805
9P05	3198 036 90010	Wire 0.58mm
9P06	3198 036 90010	Wire 0.58mm
9P07	3198 036 90010	Wire 0.58mm
9P08	3198 036 90010	Wire 0.58mm
9P09	3198 036 90010	Wire 0.58mm
9P10	3198 036 90010	Wire 0.58mm
9P11	3198 036 90010	Wire 0.58mm
9P12	3198 036 90010	Wire 0.58mm
9P13	3198 036 90010	Wire 0.58mm
9P14	3198 036 90010	Wire 0.58mm
9P15	3198 036 90010	Wire 0.58mm
9P16	3198 036 90010	Wire 0.58mm
9P17	3198 036 90010	Wire 0.58mm
9P18	3198 036 90010	Wire 0.58mm
9P19	3198 036 90010	Wire 0.58mm
9P20	3198 036 90010	Wire 0.58mm
9P21	3198 036 90010	Wire 0.58mm
9P22	3198 036 90010	Wire 0.58mm
9P23	3198 036 90010	Wire 0.58mm
9P24	3198 036 90010	Wire 0.58mm
9P25	3198 036 90010	Wire 0.58mm
9P26	3198 036 90010	Wire 0.58mm
9P27	3198 036 90010	Wire 0.58mm
9P28	3198 036 90010	Wire 0.58mm
9P29	3198 036 90010	Wire 0.58mm
9P30	3198 036 90010	Wire 0.58mm
9P32	3198 036 90010	Wire 0.58mm
9P33	3198 036 90010	Wire 0.58mm
9P34	3198 036 90010	Wire 0.58mm
9P35	3198 036 90010	Wire 0.58mm
9P36	3198 036 90010	Wire 0.58mm
9P37	3198 036 90010	Wire 0.58mm
9P38	3198 036 90010	Wire 0.58mm
9P39	3198 036 90010	Wire 0.58mm
9P40	3198 036 90010	Wire 0.58mm
9P41	3198 036 90010	Wire 0.58mm
9P42	3198 036 90010	Wire 0.58mm
9P43	3198 036 90010	Wire 0.58mm
9P44	3198 036 90010	Wire 0.58mm
9P45	3198 036 90010	Wire 0.58mm
9P46	3198 036 90010	Wire 0.58mm
9P47	3198 036 90010	Wire 0.58mm
9P48	3198 036 90010	Wire 0.58mm
9P49	3198 036 90010	Wire 0.58mm
9P50	3198 036 90010	Wire 0.58mm
9P51	3198 036 90010	Wire 0.58mm
9P52	3198 036 90010	Wire 0.58mm
9P53	3198 036 90010	Wire 0.58mm
9P54	3198 036 90010	Wire 0.58mm
9P56	3198 036 90010	Wire 0.58mm
9P57	3198 036 90010	Wire 0.58mm
9P58	4822 051 20008	Jumper 0805
9P62	3198 036 90010	Wire 0.58mm
9P67	3198 036 90010	Wire 0.58mm
9P75	3198 036 90010	Wire 0.58mm
9P76	3198 036 90010	Wire 0.58mm
9P78	3198 036 90010	Wire 0.58mm
9P79	3198 036 90010	Wire 0.58mm
9P80	4822 051 20008	Jumper 0805
9P81	4822 051 20008	Jumper 0805
9S01	4822 051 30008	Jumper 0603
9S02	4822 051 30008	Jumper 0603

9S03	3198 036 90010	Wire 0.58mm
9S10	3198 036 90010	Wire 0.58mm
9S16	3198 036 90010	Wire 0.58mm
9S17	3198 036 90010	Wire 0.58mm
9S18	3198 036 90010	Wire 0.58mm
9S24	3198 036 90010	Wire 0.58mm
9S25	3198 036 90010	Wire 0.58mm

5F00⚠	4822 157 11523	Line filter 5mH/2A
5P00	2422 531 00131	Transf. BS25515-00
5P00⚠	2422 531 00134	BS25504-02B
5P01	2422 531 00131	Transf. BS25515-00
5P01⚠	2422 531 00134	BS25504-02B
5P03	4822 157 50961	22μH
5P04	4822 157 11411	Bead 80Ω at 100MHz
5P05	4822 526 10704	Bead 50 Ω at 100MHz
5P06	4822 157 11411	Bead 80Ω at 100MHz
5P07	4822 157 11411	Bead 80Ω at 100MHz
5P08	4822 526 10704	Bead 50 Ω at 100MHz
5P09⚠	4822 157 11832	400μH 3A
5P10	2422 549 00169	Bead 45Ω at 100MHz
5P11	2422 549 00169	Bead 45Ω at 100MHz
5P12	2422 549 00169	Bead 45Ω at 100MHz
5P13	2422 549 00169	Bead 45Ω at 100MHz
5P16	4822 157 11411	Bead 80Ω at 100MHz
5P18	2422 535 94636	3.3μF 20%
5P19	2422 535 94636	3.3μF 20%
5P20	2422 535 94636	3.3μF 20%
5P21	2422 549 44197	Bead 220Ω at 100MHz
5P22	2422 549 44197	Bead 220Ω at 100MHz
5P23	2422 549 44197	Bead 220Ω at 100MHz
5P24	2422 549 44197	Bead 220Ω at 100MHz
5P25	4822 157 11716	Bead 30Ω at 100MHz
5P26	4822 157 11716	Bead 30Ω at 100MHz
5P27	4822 157 11716	Bead 30Ω at 100MHz
5P28	4822 157 11716	Bead 30Ω at 100MHz
5S00	3104 308 21181	BS25320-00
5S01	4822 157 11828	22μH 20% 0805
5S03	4822 526 10704	Bead 50 Ω at 100MHz
5S05	4822 157 11411	Bead 80Ω at 100MHz
5S08	4822 526 10704	Bead 50 Ω at 100MHz
5S09	4822 157 11411	Bead 80Ω at 100MHz
5S10	2422 549 43769	Bead 30Ω at 100MHz
5S11	4822 157 11411	Bead 80Ω at 100MHz
5S12	4822 526 10704	Bead 50 Ω at 100MHz
5S14	2422 549 44197	Bead 220Ω at 100MHz
5S15	2422 549 44197	Bead 220Ω at 100MHz
5S16	4822 157 11716	Bead 30Ω at 100MHz

6P01	9322 203 12673	BYV27-600
6P02	9322 203 12673	BYV27-600
6P03	9322 208 83685	BZG05C27
6P04	9322 208 83685	BZG05C27
6P05⚠	9322 227 41687	Bridge GBL06L-7000E3
6P05	9322 233 91687	Bridge GBL08L-7000E3
6P06	9322 099 61685	BYG10J
6P07	9322 099 61685	BYG10J
6P09	4822 130 11522	UDZ15B
6P10	9322 202 75687	BYW29FP-200
6P11	9322 202 75687	BYW29FP-200
6P12	9322 202 75687	BYW29FP-200
6P13	9322 202 75687	BYW29FP-200
6P14	4822 130 11397	BAS316
6P15	4822 130 11397	BAS316
6P22	4822 130 11522	UDZ15B
6P23	4822 130 11522	UDZ15B
6P27	9322 202 55685	BYG22D
6P31	4822 130 11522	UDZ15B
6P47	9322 208 44685	BZG05C6V8
6P50	4822 130 11522	UDZ15B
6P51	4822 130 11416	PDZ6.8B
6P52	4822 130 11522	UDZ15B
6P53	4822 130 11397	BAS316
6P80	4822 130 11397	BAS316
6P81	4822 130 11152	UDZ18B
6P82	4822 130 11397	BAS316
6P83	4822 130 11397	BAS316
6P84	4822 130 11397	BAS316
6P85	4822 130 11397	BAS316
6S01	5322 130 31938	BYV27-200
6S04	9340 548 69115	PDZ27B
6S05	4822 130 11522	UDZ15B
6S07	4822 130 11572	STPS8H100F
6S09	4822 130 11522	UDZ15B
6S10	9322 102 64685	UDZ2.7B
6S11	4822 130 11397	BAS316
6S12	9322 202 55685	BYG22D
6S13	4822 130 11397	BAS316
6S30	9322 203 12673	BYV27-600
6S31	4822 130 11522	UDZ15B
6S47	9322 208 44685	BZG05C6V8
6S49	3198 020 55680	BZX384-C5V6

7P02	9322 194 26687	STP6NK60Z
7P03	9322 192 16685	TS2431AI
7P04	3198 010 42310	BC847BW
7P06	9340 219 30115	BC817-25W
7P07	3198 010 42320	BC857BW
7P09	3198 010 42310	BC847BW
7P10	3198 010 42310	BC847BW
7P11⚠	9322 149 04682	TCET1102
7P12⚠	9322 149 04682	TCET1102
7P14	9340 557 69127	PHX9NQ20T
7P15	3198 010 42310	BC847BW
7P16	9322 192 16685	TS2431AI
7P16	9322 241 28685	TS2431BI
7P17	3198 010 42310	BC847BW
7P18	9340 436 50115	BSP030
7P19	3198 010 42310	BC847BW
7P20	9340 436 50115	BSP030
7P21	3198 010 42310	BC847BW
7P22	3198 010 42320	BC857BW
7P23	9340 436 50115	BSP030
7P24	3198 010 42320	BC857BW
7P26	9340 219 30115	BC817-25W
7P27	9352 743 34518	TEA1506AT/N1
7P38	3198 010 42310	BC847BW
7P80	3198 010 42310	BC847BW
7P81	9322 192 16685	TS2431AI
7P82	3198 010 42320	BC857BW
7S02	9322 194 26687	STP6NK60Z
7S03⚠	9322 149 04682	TCET1102
7S04	9322 192 16685	TS2431AI
7S10	9352 700 18518	TEA1533AT/N1
7S11	9340 219 30115	BC817-25W
7S31	9340 436 50115	BSP030
7S40	3198 010 42310	BC847BW

Small Signal Board [B]

Various

1735	2422 025 16382	Connector 3p m
1736	4822 267 10735	Connector 3p
1738	4822 267 10565	Connector 4p
1A33	2422 086 11092	Fuse 500mA 50V F SMD
1A51	2422 549 44369	SAW 38.9MHz K9656L
1A52	2422 549 44372	SAW 38.9MHz K3953L
1B01	2422 033 00018	Connector 19p f
1B02	2422 033 00018	Connector 19p f
1C33⚠	2422 086 11092	Fuse 500mA 50V F SMD
1C51	2422 549 44369	SAW 38.9MHz K9656L
1C52	2422 549 44372	SAW 38.9MHz K3953L
1D42	2422 025 18739	Connector 5p m
1E50	2422 025 17601	Connector 40p f
1F00	2422 025 17274	Connector 10p m
1F01	2422 540 00017	Reson. 60MHz CSTCW
1F02	2422 025 18741	Connector 6p m
1G50	2422 025 18973	Conn. 41p f 0.5 smd
1H00	2422 543 01397	Xtal 27MHz 18pF
1H01	2422 025 17775	Socket USB 4p f
1I00	2422 026 04811	Socket. Cinch 3p f
1I01	2422 026 04811	Socket. Cinch 3p f
1I02	2422 026 05079	Socket Cinch 3p f
1I10	2422 025 16984	Connector 15p f
1I11	2422 026 05548	Socket phone 1p f
1LA0	2422 543 01443	Xtal 16MHz 20pF
1M01	2422 025 18738	Connector 3p m
1M02	2422 025 11244	Connector 7p m
1M03	2422 025 18734	Connector 11p m
1M15	2422 025 10775	Connector 3p m
1M15	4822 267 10459	Connector 3p
1M21	2422 025 08149	Connector 6p m
1M36	2422 025 18735	Connector 11p m
1M46	2422 025 18735	Connector 11p m
1M59	2422 025 19265	Connector 5p m Bk
1N00	2422 543 01095	Res. 12MHz DSX840
1O00	2422 543 01398	Xtal 25MHz 18p
1O10	2422 025 18056	Jack 8p Ethernet
1P01	2422 025 19501	Socket PCMCIA H 68P f
1P01	2422 033 00364	Connector smartcard
1T03	3139 147 22161	Tuner UV1318S/AIHN-3
1T03	3139 147 22181	Tuner UV1318ST/AIHN-3
1T03	3139 147 25251	TUNER UV1300T/I H-3
1U01⚠	2422 086 00623	Fuse 3A T 125V
1U04⚠	2422 086 00623	Fuse 3A T 125V
1W05	3112 297 14831	Tuner TD1316AF/PHP-3
1W05	3112 297 15121	Tuner TD1316AF/PHP-2
1W20	2422 025 18779	Connector 4p m
8299	3104 301 08351	Cable phono/140/phono

2A01	2238 787 15641	22nF 5% 16V 0402
2A02	2238 787 15641	22nF 5% 16V 0402
2A03	2238 787 15641	22nF 5% 16V 0402
2A06	2238 787 15641	22nF 5% 16V 0402
2A07	2238 787 15641	22nF 5% 16V 0402
2A08	2238 787 15641	22nF 5% 16V 0402
2A09	2238 787 15641	22nF 5% 16V 0402
2A10	2020 552 96628	10nF 10% 16V 0402
2A12	2238 787 15641	22nF 5% 16V 0402
2A13	2238 787 15641	22nF 5% 16V 0402
2A15	2238 787 15641	22nF 5% 16V 0402
2A16	2238 787 15641	22nF 5% 16V 0402
2A17	2238 787 15641	22nF 5% 16V 0402
2A18	2238 787 15641	22nF 5% 16V 0402
2A19	2238 787 15641	22nF 5% 16V 0402
2A20	2238 787 15641	22nF 5% 16V 0402
2A21	2020 004 90283	10μF 20% 10V 1206
2A22	2238 586 59812	100nF 20% 50V 0603
2A23	2238 787 15641	22nF 5% 16V 0402
2A25	4822 124 23002	10μF 16V
2A27	2238 586 59812	100nF 20% 50V 0603
2A28	2238 586 59812	100nF 20% 50V 0603
2A29	4822 124 23002	10μF 16V
2A30	2022 552 05679	1μF 10% 16V 0805
2A31	2020 552 96628	10nF 10% 16V 0402
2A33	2020 552 96628	10nF 10% 16V 0402
2A35	2238 586 59812	100nF 20% 50V 0603
2A36	2022 552 05679	1μF 10% 16V 0805
2A39	2238 586 59812	100nF 20% 50V 0603
2A40	2238 586 59812	100nF 20% 50V 0603
2A42	2022 552 05679	1μF 10% 16V 0805
2A44	2238 586 59812	100nF 20% 50V 0603
2A45	4822 124 23002	10μF 16V
2A52	4822 124 23002	10μF 16V
2A53	2020 552 96628	10nF 10% 16V 0402
2A54	2020 552 96618	1nF 10% 50V 0402
2A55	2238 586 59812	100nF 20% 50V 0603
2A56	2022 552 05679	1μF 10% 16V 0805
2A57	2020 552 96628	10nF 10% 16V 0402
2A59	3198 032 55130	10μF 20% 20V
2A60	2020 552 96628	10nF 10% 16V 0402
2A61	2022 552 05679	1μF 10% 16V 0805
2A63	2238 586 59812	100nF 20% 50V 0603
2A65	2020 552 96628	10nF 10% 16V 0402
2A67	2022 552 05679	1μF 10% 16V 0805
2A68	2022 552 05679	1μF 10% 16V 0805
2A69	2238 586 59812	100nF 20% 50V 0603
2A70	2020 552 96628	10nF 10% 16V 0402
2A71	2020 552 96628	10nF 10% 16V 0402
2A74	2020 552 96628	10nF 10% 16V 0402
2A81	2022 552 05679	1μF 10% 16V 0805
2A82	2238 586 59812	100nF 20% 50V 0603
2A84	2022 552 05679	1μF 10% 16V 0805
2A85	4822 126 14324	33pF 5% 50V 0402
2A88	2238 586 59812	100nF 20% 50V 0603
2A89	2238 586 59812	100nF 20% 50V 0603
2A90	2022 552 05679	1μF 10% 16V 0805
2A91	4822 126 14324	33pF 5% 50V 0402
2A92	4822 126 14324	33pF 5% 50V 0402
2A93	2238 586 59812	100nF 20% 50V 0603
2A96	2022 552 05679	1μF 10% 16V 0805
2A97	2022 552 05679	1μF 10% 16V 0805
2A98	4822 126 14324	33pF 5% 50V 0402
2A99	4822 126 14324	33pF 5% 50V 0402
2B00	2238 586 59812	100nF 20% 50V 0603
2B01	2238 586 59812	100nF 20% 50V 0603
2B04	2238 586 59812	100nF 20% 50V 0603
2B05	2238 586 59812	100nF 20% 50V 0603
2B07	3198 034 01580	1.5pF 1% 50V 0402
2B08	2238 869 15109	10pF 5% 50V 0402
2B09	3198 034 01580	1.5pF 1% 50V 0402
2B10	2238 869 15109	10pF 5% 50V 0402
2B11	2020 552 96628	10nF 10% 16V 0402
2B14	3198 034 01580	1.5pF 1% 50V 0402
2B15	2238 869 15109	10pF 5% 50V 0402
2B16	3198 034 01580	1.5pF 1% 50V 0402
2B17	2238 869 15109	10pF 5% 50V 0402
2B20	3198 034 01580	1.5pF 1% 50V 0402
2B21	2020 552 96628	10nF 10% 16V 0402
2B22	2020 552 96628	10nF 10% 16V 0402
2B23	2020 552 96628	10nF 10% 16V 0402
2B24	2020 552 96628	10nF 10% 16V 0402
2B25	2020 552 96628	10nF 10% 16V 0402
2B26	2020 552 96628	10nF 10% 16V 0402
2B27	2020 552 96628	10nF 10% 16V 0402
2B28	2020 552 96628	10nF 10% 16V 0402
2B29	2020 552 96628	10nF 10% 16V 0402

2B30	2020 552 96628	10nF 10% 16V 0402
2B31	2020 552 96628	10nF 10% 16V 0402
2B32	2238 869 15109	10pF 5% 50V 0402
2B33	3198 034 01580	1.5pF 1% 50V 0402
2B34	2238 869 15109	10pF 5% 50V 0402
2B35	2020 552 96628	10nF 10% 16V 0402
2B36	2020 552 96628	10nF 10% 16V 0402
2B38	2022 552 05679	1µF 10% 16V 0805
2B39	2020 004 00003	330µF 20% 6.3V
2B39	2022 009 00703	330µF 20% 6.3V
2B40	2238 586 59812	100nF 20% 50V 0603
2B41	2238 586 59812	100nF 20% 50V 0603
2B42	2238 586 59812	100nF 20% 50V 0603
2B49	2238 586 59812	100nF 20% 50V 0603
2B51	2238 586 59812	100nF 20% 50V 0603
2B52	2238 586 59812	100nF 20% 50V 0603
2B53	2238 586 59812	100nF 20% 50V 0603
2B62	2238 586 59812	100nF 20% 50V 0603
2B64	2238 586 59812	100nF 20% 50V 0603
2B67	4822 124 81058	47µF 20% 4V
2B69	2238 586 59812	100nF 20% 50V 0603
2B77	2238 586 59812	100nF 20% 50V 0603
2B79	2238 586 59812	100nF 20% 50V 0603
2B80	2238 586 59812	100nF 20% 50V 0603
2B81	2238 586 59812	100nF 20% 50V 0603
2B89	5322 126 11583	10nF 10% 50V 0603
2B90	4822 124 81058	47µF 20% 4V
2B92	2238 586 59812	100nF 20% 50V 0603
2BA0	2020 552 96628	10nF 10% 16V 0402
2BA1	3198 035 14720	4.7nF 5% 25V 0402
2BA2	2020 552 96628	10nF 10% 16V 0402
2BA3	3198 035 14720	4.7nF 5% 25V 0402
2C01	2238 787 15641	22nF 5% 16V 0402
2C02	2238 787 15641	22nF 5% 16V 0402
2C03	2238 787 15641	22nF 5% 16V 0402
2C06	2238 787 15641	22nF 5% 16V 0402
2C07	2238 787 15641	22nF 5% 16V 0402
2C08	2238 787 15641	22nF 5% 16V 0402
2C09	2238 787 15641	22nF 5% 16V 0402
2C12	2238 787 15641	22nF 5% 16V 0402
2C13	2238 787 15641	22nF 5% 16V 0402
2C15	2238 787 15641	22nF 5% 16V 0402
2C16	2238 787 15641	22nF 5% 16V 0402
2C17	2238 787 15641	22nF 5% 16V 0402
2C18	2238 787 15641	22nF 5% 16V 0402
2C19	2238 787 15641	22nF 5% 16V 0402
2C20	2238 787 15641	22nF 5% 16V 0402
2C21	2020 004 90283	10µF 20% 10V 1206
2C22	2238 586 59812	100nF 20% 50V 0603
2C23	2238 787 15641	22nF 5% 16V 0402
2C25	2020 004 90283	10µF 20% 10V 1206
2C27	2238 586 59812	100nF 20% 50V 0603
2C28	2238 586 59812	100nF 20% 50V 0603
2C31	2238 586 59812	100nF 20% 50V 0603
2C32	4822 124 12108	100µF 20% 4V
2C35	2238 586 59812	100nF 20% 50V 0603
2C36	2022 552 05679	1µF 10% 16V 0805
2C39	2238 586 59812	100nF 20% 50V 0603
2C40	2238 586 59812	100nF 20% 50V 0603
2C41	2020 552 96618	1nF 10% 50V 0402
2C42	2022 552 05679	1µF 10% 16V 0805
2C44	2238 586 59812	100nF 20% 50V 0603
2C45	4822 124 23002	10µF 16V
2C46	2022 552 05679	1µF 10% 16V 0805
2C47	2238 586 59812	100nF 20% 50V 0603
2C48	2022 552 05679	1µF 10% 16V 0805
2C49	2022 552 05679	1µF 10% 16V 0805
2C52	4822 124 23002	10µF 16V
2C53	2020 552 96628	10nF 10% 16V 0402
2C55	2238 586 59812	100nF 20% 50V 0603
2C56	2022 552 05679	1µF 10% 16V 0805
2C57	2020 552 96628	10nF 10% 16V 0402
2C59	4822 124 23002	10µF 16V
2C60	2020 552 96628	10nF 10% 16V 0402
2C61	2020 552 96628	10nF 10% 16V 0402
2C62	2020 552 96628	10nF 10% 16V 0402
2C63	2238 586 59812	100nF 20% 50V 0603
2C65	2020 552 96628	10nF 10% 16V 0402
2C67	2022 552 05679	1µF 10% 16V 0805
2C68	2022 552 05679	1µF 10% 16V 0805
2C69	2238 586 59812	100nF 20% 50V 0603
2C70	2020 552 96628	10nF 10% 16V 0402
2C72	2020 552 96618	1nF 10% 50V 0402
2C73	4822 124 23002	10µF 16V
2C74	2020 552 96628	10nF 10% 16V 0402
2C78	2022 552 05679	1µF 10% 16V 0805
2C79	2022 552 05679	1µF 10% 16V 0805
2C82	2020 552 96628	10nF 10% 16V 0402
2C84	2020 552 00217	270pF 5% 50V 0402
2C84	3198 035 02210	220pF 5% 50V 0402
2C85	4822 126 14524	68pF 5% 50V 0402
2C86	3198 034 03380	3.3pF 1% 50V 0402
2C99	2022 552 05679	1µF 10% 16V 0805
2D00	2020 021 00213	220µF 25V 20%
2D00	2020 021 00215	220µF 20% 25V
2D01	2020 021 00213	220µF 25V 20%
2D01	2020 021 00215	220µF 20% 25V
2D02	2020 021 00213	220µF 25V 20%
2D02	2020 021 00215	220µF 20% 25V
2D03	2020 021 00213	220µF 25V 20%
2D03	2020 021 00215	220µF 20% 25V
2D04	2020 552 96628	10nF 10% 16V 0402
2D05	2020 552 96628	10nF 10% 16V 0402
2D06	3198 034 02280	2.2pF 1% 50V 0402
2D06	3198 034 04780	4.7pF 50V NP0 0402
2D07	3198 034 02280	2.2pF 1% 50V 0402
2D07	3198 034 04780	4.7pF 50V NP0 0402
2D08	3198 034 04780	4.7pF 50V NP0 0402
2D09	2238 869 15101	100pF 5% 50V 0402
2D10	2022 552 05615	2.2µF 10% 6.3V 0805
2D10	2250 200 13667	2.2µF 10% 6.3V 0805
2D11	2020 552 96618	1nF 10% 50V 0402
2D12	2238 869 15101	100pF 5% 50V 0402
2D13	2020 552 96684	470nF 10% 25V 0805
2D13	2020 552 96828	470nF 20% 25V
2D15	2020 552 96684	470nF 10% 25V 0805
2D15	2020 552 96828	470nF 20% 25V
2D17	3198 034 02280	2.2pF 1% 50V 0402
2D17	3198 034 04780	4.7pF 50V NP0 0402
2D18	2238 586 59812	100nF 20% 50V 0603
2D19	2222 580 15649	100nF 10% 50V 0805
2D20	2020 552 96684	470nF 10% 25V 0805
2D20	2020 552 96828	470nF 20% 25V
2D21	2020 552 96684	470nF 10% 25V 0805
2D21	2020 552 96828	470nF 20% 25V
2D22	2238 586 59812	100nF 20% 50V 0603
2D23	2238 586 59812	100nF 20% 50V 0603
2D24	2020 552 96621	1.5nF 10% 50V 0402
2D25	2020 552 96628	10nF 10% 16V 0402
2D25	5322 126 11583	10nF 10% 50V 0603
2D26	2020 552 96628	10nF 10% 16V 0402
2D26	5322 126 11583	10nF 10% 50V 0603
2D27	2020 552 96621	1.5nF 10% 50V 0402
2D28	2020 552 96621	1.5nF 10% 50V 0402
2D29	2020 552 96621	1.5nF 10% 50V 0402
2D30	2020 552 96621	1.5nF 10% 50V 0402
2D31	3198 034 02280	2.2pF 1% 50V 0402
2D31	3198 034 04780	4.7pF 50V NP0 0402
2D32	2020 552 96621	1.5nF 10% 50V 0402
2D33	2222 580 15649	100nF 10% 50V 0805
2D34	2238 586 59812	100nF 20% 50V 0603
2D35	2020 552 96684	470nF 10% 25V 0805
2D35	2020 552 96828	470nF 20% 25V
2D37	3198 034 04780	4.7pF 50V NP0 0402
2D38	2020 552 96684	470nF 10% 25V 0805
2D38	2020 552 96828	470nF 20% 25V
2D40	2022 552 05679	1µF 10% 16V 0805
2D41	2022 552 05679	1µF 10% 16V 0805
2D42	2020 552 96621	1.5nF 10% 50V 0402
2D43	2020 552 96621	1.5nF 10% 50V 0402
2D44	2020 552 96621	1.5nF 10% 50V 0402
2D45	2020 552 96621	1.5nF 10% 50V 0402
2D46	5322 126 11583	10nF 10% 50V 0603
2D47	2238 586 59812	100nF 20% 50V 0603
2D48	2238 586 59812	100nF 20% 50V 0603
2D49	2238 586 59812	100nF 20% 50V 0603
2D50	2020 552 96828	470nF 20% 25V
2D52	2020 552 96828	470nF 20% 25V
2D54	3198 034 04780	4.7pF 50V NP0 0402
2D55	2238 586 59812	100nF 20% 50V 0603
2D56	2222 580 15649	100nF 10% 50V 0805
2D57	2020 552 96683	220nF 10% 50V
2D58	2020 552 96683	220nF 10% 50V
2D59	2238 586 59812	100nF 20% 50V 0603
2D60	2238 586 59812	100nF 20% 50V 0603
2D61	2020 552 96621	1.5nF 10% 50V 0402
2D62	2238 916 15641	22nF 10% 25V 0603
2D63	2238 916 15641	22nF 10% 25V 0603
2D64	2020 552 96621	1.5nF 10% 50V 0402
2D65	2020 552 96621	1.5nF 10% 50V 0402
2D66	2020 552 96621	1.5nF 10% 50V 0402
2D67	2020 552 96621	1.5nF 10% 50V 0402
2D68	3198 034 04780	4.7pF 50V NP0 0402
2D69	2020 552 96621	1.5nF 10% 50V 0402
2D70	2222 580 15649	100nF 10% 50V 0805
2D71	2238 586 59812	100nF 20% 50V 0603
2D72	2020 552 96828	470nF 20% 25V
2D75	2020 552 96828	470nF 20% 25V
2D77	2022 552 05679	1µF 10% 16V 0805
2D78	2022 552 05679	1µF 10% 16V 0805
2D79	2020 552 96618	1nF 10% 50V 0402
2D80	2020 552 96618	1nF 10% 50V 0402
2D80	2020 552 96623	2.2nF 10% 50V 0402
2D81	2020 552 96618	1nF 10% 50V 0402
2D82	2020 552 96618	1nF 10% 50V 0402
2D82	2020 552 96623	2.2nF 10% 50V 0402
2D83	2020 021 00213	220µF 25V 20%
2D83	2020 021 00215	220µF 20% 25V
2D84	2020 021 00213	220µF 25V 20%
2D84	2020 021 00215	220µF 20% 25V
2D91	2022 552 05679	1µF 10% 16V 0805
2D92	2238 586 59812	100nF 20% 50V 0603
2D93	2022 552 05679	1µF 10% 16V 0805
2D94	3198 017 34730	47nF 16V 0603
2D95	2238 869 15101	100pF 5% 50V 0402
2DA2	2238 586 59812	100nF 20% 50V 0603
2DA3	2238 586 59812	100nF 20% 50V 0603
2DD1	2020 021 00213	220µF 25V 20%
2DD1	2020 021 00215	220µF 20% 25V
2DD2	2020 021 00213	220µF 25V 20%
2DD2	2020 021 00215	220µF 20% 25V
2DF1	2020 552 96628	10nF 10% 16V 0402
2DG1	2238 586 59812	100nF 20% 50V 0603
2DG2	2238 586 59812	100nF 20% 50V 0603
2DG3	2238 586 59812	100nF 20% 50V 0603
2DG4	2238 586 59812	100nF 20% 50V 0603
2DH1	2020 552 96618	1nF 10% 50V 0402
2DH2	2020 552 96618	1nF 10% 50V 0402
2DH2	2238 869 15101	100pF 5% 50V 0402
2DH3	2238 586 59812	100nF 20% 50V 0603
2DH6	2020 552 96628	10nF 10% 16V 0402
2DH7	2020 552 96628	10nF 10% 16V 0402
2DH8	2020 552 96628	10nF 10% 16V 0402
2DH9	2238 869 15101	100pF 5% 50V 0402
2F00	2238 869 15109	10pF 5% 50V 0402
2F00	3198 034 04780	4.7pF 50V NP0 0402
2F01	2238 869 15109	10pF 5% 50V 0402
2F01	3198 034 04780	4.7pF 50V NP0 0402
2F02	2238 869 15109	10pF 5% 50V 0402
2F02	3198 034 04780	4.7pF 50V NP0 0402
2F03	2238 869 15109	10pF 5% 50V 0402
2F03	3198 034 04780	4.7pF 50V NP0 0402
2F04	2238 869 15109	10pF 5% 50V 0402
2F04	3198 034 04780	4.7pF 50V NP0 0402
2F05	2238 869 15109	10pF 5% 50V 0402
2F05	3198 034 04780	4.7pF 50V NP0 0402
2F06	2238 869 15109	10pF 5% 50V 0402
2F06	3198 034 04780	4.7pF 50V NP0 0402
2F07	2238 869 15109	10pF 5% 50V 0402
2F07	3198 034 04780	4.7pF 50V NP0 0402
2F08	2238 869 15109	10pF 5% 50V 0402
2F08	3198 034 04780	4.7pF 50V NP0 0402
2F09	2238 869 15109	10pF 5% 50V 0402
2F09	3198 034 04780	4.7pF 50V NP0 0402
2F0C	2238 869 15109	10pF 5% 50V 0402
2F0C	3198 034 04780	4.7pF 50V NP0 0402
2F0D	2238 869 15109	10pF 5% 50V 0402
2F0D	3198 034 04780	4.7pF 50V NP0 0402
2F0E	2238 869 15109	10pF 5% 50V 0402
2F0E	3198 034 04780	4.7pF 50V NP0 0402
2F0F	2238 869 15109	10pF 5% 50V 0402
2F0F	3198 034 04780	4.7pF 50V NP0 0402
2F0G	2238 869 15109	10pF 5% 50V 0402
2F0G	3198 034 04780	4.7pF 50V NP0 0402
2F0H	2238 869 15109	10pF 5% 50V 0402
2F0H	3198 034 04780	4.7pF 50V NP0 0402
2F0I	2238 869 15109	10pF 5% 50V 0402
2F0I	3198 034 04780	4.7pF 50V NP0 0402
2F0J	2238 869 15109	10pF 5% 50V 0402
2F0J	3198 034 04780	4.7pF 50V NP0 0402
2F0M	2238 869 15109	10pF 5% 50V 0402
2F0M	3198 034 04780	4.7pF 50V NP0 0402
2F0N	2238 869 15109	10pF 5% 50V 0402
2F0N	3198 034 04780	4.7pF 50V NP0 0402
2F0Q	2020 552 96628	10nF 10% 16V 0402
2F0R	2238 586 59812	100nF 20% 50V 0603
2F0S	2238 586 59812	100nF 20% 50V 0603
2F0T	2022 552 05679	1µF 10% 16V 0805
2F0U	2020 552 00141	4.7µF 10% 6.3V 0805
2F0V	2022 552 05679	1µF 10% 16V 0805
2F0W	2022 552 05679	1µF 10% 16V 0805
2F0Y	2020 552 96628	10nF 10% 16V 0402
2F0Z	2020 552 96628	10nF 10% 16V 0402
2F10	2020 552 96628	10nF 10% 16V 0402
2F11	2020 552 96628	10nF 10% 16V 0402
2F12	2020 552 96628	10nF 10% 16V 0402
2F13	2020 552 96628	10nF 10% 16V 0402
2F14	2020 552 96628	10nF 10% 16V 0402
2F15	2020 552 96628	10nF 10% 16V 0402
2F16	2022 552 05679	1µF 10% 16V 0805
2F17	2020 552 96628	10nF 10% 16V 0402
2F18	2020 552 96628	10nF 10% 16V 0402
2F19	2020 552 96628	10nF 10% 16V 0402
2F1A	2020 552 96628	10nF 10% 16V 0402
2F1B	2020 552 96628	10nF 10% 16V 0402
2F1C	2020 552 96628	10nF 10% 16V 0402
2F1D	2020 552 96628	10nF 10% 16V 0402
2F1E	2020 552 96628	10nF 10% 16V 0402
2F1F	2020 552 96628	10nF 10% 16V 0402
2F1G	2020 552 96628	10nF 10% 16V 0402
2F1H	2022 552 05679	1µF 10% 16V 0805
2F1I	2020 552 96628	10nF 10% 16V 0402

2F1J	2020 552 96628	10nF 10% 16V 0402
2F1K	2020 552 96628	10nF 10% 16V 0402
2F1L	2020 552 96628	10nF 10% 16V 0402
2F1M	2020 552 96628	10nF 10% 16V 0402
2F1N	2020 552 96628	10nF 10% 16V 0402
2F1P	2020 552 96628	10nF 10% 16V 0402
2F1Q	2020 552 96628	10nF 10% 16V 0402
2F1R	2020 552 96628	10nF 10% 16V 0402
2F1S	2020 552 96628	10nF 10% 16V 0402
2F1T	2020 552 96628	10nF 10% 16V 0402
2F1U	2020 552 96628	10nF 10% 16V 0402
2F1V	2020 552 96628	10nF 10% 16V 0402
2F1W	2020 552 96628	10nF 10% 16V 0402
2F1Y	2020 552 96628	10nF 10% 16V 0402
2F1Z	2020 552 96628	10nF 10% 16V 0402
2F20	2020 552 96628	10nF 10% 16V 0402
2F21	2020 552 96628	10nF 10% 16V 0402
2F22	2020 552 96628	10nF 10% 16V 0402
2F23	2020 552 96628	10nF 10% 16V 0402
2F24	2020 552 96628	10nF 10% 16V 0402
2F25	2020 552 96628	10nF 10% 16V 0402
2F26	2020 552 96628	10nF 10% 16V 0402
2F27	2020 552 96628	10nF 10% 16V 0402
2F28	2020 552 96628	10nF 10% 16V 0402
2F29	2020 552 96628	10nF 10% 16V 0402
2F2A	2238 586 59812	100nF 20% 50V 0603
2F2B	2022 552 05679	1µF 10% 16V 0805
2F2D	2238 586 59812	100nF 20% 50V 0603
2F2I	2238 586 59812	100nF 20% 50V 0603
2F2K	2238 869 15101	100pF 5% 50V 0402
2F2L	2238 869 15101	100pF 5% 50V 0402
2F2N	2022 552 05679	1µF 10% 16V 0805
2F2P	3198 035 04710	470pF 50V 0402
2F2Q	3198 035 04710	470pF 50V 0402
2F2R	2022 552 05679	1µF 10% 16V 0805
2F30	2020 552 00141	4.7µF 10% 6.3V 0805
2F31	2020 552 96628	10nF 10% 16V 0402
2F32	2020 552 96628	10nF 10% 16V 0402
2F33	2020 552 96628	10nF 10% 16V 0402
2F34	2020 552 96628	10nF 10% 16V 0402
2F35	2020 552 96628	10nF 10% 16V 0402
2F36	2020 552 96628	10nF 10% 16V 0402
2F37	2020 552 96628	10nF 10% 16V 0402
2F38	2020 552 96628	10nF 10% 16V 0402
2F39	2020 552 96628	10nF 10% 16V 0402
2F3A	2020 552 96628	10nF 10% 16V 0402
2F3B	2020 552 96628	10nF 10% 16V 0402
2F3C	2020 552 96628	10nF 10% 16V 0402
2F3D	2238 586 59812	100nF 20% 50V 0603
2F3E	2238 586 59812	100nF 20% 50V 0603
2F3F	2022 552 05679	1µF 10% 16V 0805
2F3G	2020 552 00141	4.7µF 10% 6.3V 0805
2F3H	2020 552 96628	10nF 10% 16V 0402
2F3I	2020 552 96628	10nF 10% 16V 0402
2F3J	2020 552 96628	10nF 10% 16V 0402
2F3K	2020 552 96628	10nF 10% 16V 0402
2F3L	2020 552 96628	10nF 10% 16V 0402
2F3M	2020 552 96628	10nF 10% 16V 0402
2F3N	2020 552 96628	10nF 10% 16V 0402
2F3P	2020 552 96628	10nF 10% 16V 0402
2F3Q	2020 552 96628	10nF 10% 16V 0402
2F3R	2020 552 96628	10nF 10% 16V 0402
2F3S	2020 552 00141	4.7µF 10% 6.3V 0805
2F3T	2020 552 96628	10nF 10% 16V 0402
2F42	2020 552 96628	10nF 10% 16V 0402
2F46	2238 586 59812	100nF 20% 50V 0603
2F47	2022 552 05635	22µF 10% 16V
2F48	2020 552 00141	4.7µF 10% 6.3V 0805
2F49	2020 552 96628	10nF 10% 16V 0402
2F4A	2022 552 05679	1µF 10% 16V 0805
2F4B	2020 552 00141	4.7µF 10% 6.3V 0805
2F4C	2022 552 05615	2.2µF 10% 6.3V 0805
2F4C	2022 552 05679	1µF 10% 16V 0805
2F4C	2250 200 13667	2.2µF 10% 6.3V 0805
2F4D	2020 552 96628	10nF 10% 16V 0402
2F4E	2238 586 59812	100nF 20% 50V 0603
2F4F	2022 552 05679	1µF 10% 16V 0805
2F4G	2238 586 59812	100nF 20% 50V 0603
2F4G	5322 126 11583	10nF 10% 50V 0603
2F4H	2238 586 59812	100nF 20% 50V 0603
2F4J	2020 552 96628	10nF 10% 16V 0402
2F4K	2020 552 96628	10nF 10% 16V 0402
2F4L	2020 552 96628	10nF 10% 16V 0402
2F4M	2020 552 96628	10nF 10% 16V 0402
2F4N	2020 552 96628	10nF 10% 16V 0402
2F4P	2020 552 96628	10nF 10% 16V 0402
2F4Q	2020 552 96628	10nF 10% 16V 0402
2F4T	2020 552 96628	10nF 10% 16V 0402
2F4U	4822 124 81058	47µF 20% 4V
2F4V	2238 586 59812	100nF 20% 50V 0603
2F4W	2020 552 96628	10nF 10% 16V 0402
2F4Y	2020 552 96628	10nF 10% 16V 0402
2F4Z	2020 552 96628	10nF 10% 16V 0402
2F50	2020 552 96628	10nF 10% 16V 0402
2F51	2020 552 96628	10nF 10% 16V 0402
2F52	2020 552 96628	10nF 10% 16V 0402
2F53	4822 124 81058	47µF 20% 4V
2F54	4822 124 81058	47µF 20% 4V
2F55	2020 552 00141	4.7µF 10% 6.3V 0805
2F57	2020 552 96628	10nF 10% 16V 0402
2F5D	3198 035 04710	470pF 50V 0402
2F60	4822 124 81058	47µF 20% 4V
2F61	2238 586 59812	100nF 20% 50V 0603
2F62	2238 586 59812	100nF 20% 50V 0603
2F63	2238 586 59812	100nF 20% 50V 0603
2F64	2238 586 59812	100nF 20% 50V 0603
2F65	2238 586 59812	100nF 20% 50V 0603
2F66	2238 586 59812	100nF 20% 50V 0603
2F67	2238 586 59812	100nF 20% 50V 0603
2F68	2238 586 59812	100nF 20% 50V 0603
2F69	2238 586 59812	100nF 20% 50V 0603
2F6A	2020 552 00141	4.7µF 10% 6.3V 0805
2F6B	2020 552 00141	4.7µF 10% 6.3V 0805
2F72	2238 586 59812	100nF 20% 50V 0603
2F73	2238 586 59812	100nF 20% 50V 0603
2F74	2238 586 59812	100nF 20% 50V 0603
2F75	4822 124 81058	47µF 20% 4V
2F77	2238 586 59812	100nF 20% 50V 0603
2F78	2238 586 59812	100nF 20% 50V 0603
2F79	2238 586 59812	100nF 20% 50V 0603
2F80	2238 586 59812	100nF 20% 50V 0603
2F81	2238 586 59812	100nF 20% 50V 0603
2F82	4822 124 81058	47µF 20% 4V
2F83	2238 586 59812	100nF 20% 50V 0603
2F84	2238 586 59812	100nF 20% 50V 0603
2F85	2238 586 59812	100nF 20% 50V 0603
2H01	2020 552 96618	1nF 10% 50V 0402
2H02	2238 586 59812	100nF 20% 50V 0603
2H03	2022 552 05679	1µF 10% 16V 0805
2H05	2238 869 15101	100pF 5% 50V 0402
2H06	2020 552 96618	1nF 10% 50V 0402
2H07	2020 552 96618	1nF 10% 50V 0402
2H08	3198 034 02790	47pF 1% 50V 0402
2H09	3198 034 02790	47pF 1% 50V 0402
2H12	3198 034 02790	47pF 1% 50V 0402
2I01	2238 869 15101	100pF 5% 50V 0402
2I02	2238 869 15101	100pF 5% 50V 0402
2I03	2022 552 05679	1µF 10% 16V 0805
2I04	2238 586 59812	100nF 20% 50V 0603
2I07	4822 124 12108	100µF 20% 4V
2I08	2238 586 59812	100nF 20% 50V 0603
2I09	4822 124 23002	10µF 16V
2I10	4822 124 23002	10µF 16V
2I12	2238 869 15101	100pF 5% 50V 0402
2I13	2238 869 15101	100pF 5% 50V 0402
2I18	2238 586 59812	100nF 20% 50V 0603
2I22	2238 869 15101	100pF 5% 50V 0402
2I23	2238 869 15101	100pF 5% 50V 0402
2I25	2238 869 15101	100pF 5% 50V 0402
2I26	2238 869 15101	100pF 5% 50V 0402
2I27	2238 869 15101	100pF 5% 50V 0402
2I31	2238 586 59812	100nF 20% 50V 0603
2I51	4822 126 11785	47pF 5% 50V 0603
2I52	4822 126 11785	47pF 5% 50V 0603
2I53	2238 586 59812	100nF 20% 50V 0603
2I54	2238 586 59812	100nF 20% 50V 0603
2I55	2238 586 59812	100nF 20% 50V 0603
2I56	5322 126 11578	1nF 10% 50V 0603
2I60	4822 124 12095	100µF 20% 16V
2I61	4822 124 12095	100µF 20% 16V
2I62	2020 012 93822	47µF 20% 16V
2I62	4822 124 80151	47µF 16V
2I80	4822 124 12095	100µF 20% 16V
2I81	4822 124 12095	100µF 20% 16V
2I83	2020 012 93822	47µF 20% 16V
2I83	4822 124 80151	47µF 16V
2I90	2022 552 05679	1µF 10% 16V 0805
2J01	2238 586 59812	100nF 20% 50V 0603
2J03	2238 586 59812	100nF 20% 50V 0603
2J05	2238 586 59812	100nF 20% 50V 0603
2J06	2238 586 59812	100nF 20% 50V 0603
2J08	2238 586 59812	100nF 20% 50V 0603
2J10	2238 586 59812	100nF 20% 50V 0603
2J13	2238 586 59812	100nF 20% 50V 0603
2J16	2238 586 59812	100nF 20% 50V 0603
2J18	2238 586 59812	100nF 20% 50V 0603
2J20	2238 586 59812	100nF 20% 50V 0603
2J22	3198 035 03320	3.3nF 5% 50V 0402
2J23	3198 035 03320	3.3nF 5% 50V 0402
2J24	3198 035 03320	3.3nF 5% 50V 0402
2J25	3198 035 03320	3.3nF 5% 50V 0402
2K38	2022 552 05679	1µF 10% 16V 0805
2K39	2022 552 05679	1µF 10% 16V 0805
2K40	2238 586 59812	100nF 20% 50V 0603
2K41	2238 586 59812	100nF 20% 50V 0603
2K42	3198 032 47170	47µF 20% 16V
2K43	2238 586 59812	100nF 20% 50V 0603
2K45	2238 586 59812	100nF 20% 50V 0603
2K58	2022 552 05679	1µF 10% 16V 0805
2K60	2022 552 05679	1µF 10% 16V 0805
2K61	2022 552 05679	1µF 10% 16V 0805
2K63	2022 552 05679	1µF 10% 16V 0805
2K67	2022 552 05679	1µF 10% 16V 0805
2K68	2022 552 05679	1µF 10% 16V 0805
2K69	2022 552 05679	1µF 10% 16V 0805
2K70	2022 552 05679	1µF 10% 16V 0805
2K71	2022 552 05679	1µF 10% 16V 0805
2K72	2022 552 05679	1µF 10% 16V 0805
2K73	2022 552 05679	1µF 10% 16V 0805
2K74	2022 552 05679	1µF 10% 16V 0805
2K75	2022 552 05679	1µF 10% 16V 0805
2K76	2022 552 05679	1µF 10% 16V 0805
2K77	2022 552 05679	1µF 10% 16V 0805
2L02	2238 586 59812	100nF 20% 50V 0603
2L03	2238 586 59812	100nF 20% 50V 0603
2L04	2020 552 96618	1nF 10% 50V 0402
2L06	2238 787 15641	22nF 5% 16V 0402
2L07	2238 586 59812	100nF 20% 50V 0603
2L08	2238 869 15101	100pF 5% 50V 0402
2L09	2238 586 59812	100nF 20% 50V 0603
2L10	2020 552 96618	1nF 10% 50V 0402
2L11	2238 869 15101	100pF 5% 50V 0402
2L12	2238 869 15101	100pF 5% 50V 0402
2L13	2238 787 15641	22nF 5% 16V 0402
2L14	2238 869 15101	100pF 5% 50V 0402
2L15	2238 787 15641	22nF 5% 16V 0402
2L16	2238 787 15641	22nF 5% 16V 0402
2L17	2238 586 59812	100nF 20% 50V 0603
2L18	2238 787 15641	22nF 5% 16V 0402
2L19	2020 552 96807	1µF 10% 10V 0603
2L20	2020 552 96807	1µF 10% 10V 0603
2L21	2020 552 96807	1µF 10% 10V 0603
2L22	2020 552 96807	1µF 10% 10V 0603
2L23	2238 787 15641	22nF 5% 16V 0402
2L50	2238 586 59812	100nF 20% 50V 0603
2L51	2238 586 59812	100nF 20% 50V 0603
2L52	2238 586 59812	100nF 20% 50V 0603
2L53	2238 586 59812	100nF 20% 50V 0603
2L54	2238 586 59812	100nF 20% 50V 0603
2L55	2238 586 59812	100nF 20% 50V 0603
2L56	2238 586 59812	100nF 20% 50V 0603
2L57	2238 586 59812	100nF 20% 50V 0603
2L58	2238 586 59812	100nF 20% 50V 0603
2L59	2238 586 59812	100nF 20% 50V 0603
2L60	2022 552 05679	1µF 10% 16V 0805
2L61	2020 552 96618	1nF 10% 50V 0402
2L62	2020 552 96618	1nF 10% 50V 0402
2L63	2238 869 15101	100pF 5% 50V 0402
2L64	2022 552 05679	1µF 10% 16V 0805
2L65	2022 552 05679	1µF 10% 16V 0805
2L66	2020 552 96618	1nF 10% 50V 0402
2L67	2020 552 96618	1nF 10% 50V 0402
2L68	2020 552 96618	1nF 10% 50V 0402
2L69	2020 552 96618	1nF 10% 50V 0402
2L70	2020 552 96618	1nF 10% 50V 0402
2L71	2020 552 96618	1nF 10% 50V 0402
2L72	2020 552 96618	1nF 10% 50V 0402
2L73	2238 787 15641	22nF 5% 16V 0402
2L74	2238 787 15641	22nF 5% 16V 0402
2LA0	4822 126 14519	22pF 5% 50V 0402
2LA1	4822 126 14519	22pF 5% 50V 0402
2LA2	2238 869 15109	10pF 5% 50V 0402
2LA4	2238 586 59812	100nF 20% 50V 0603
2LA5	3198 035 03320	3.3nF 5% 50V 0402
2LA6	3198 035 03320	3.3nF 5% 50V 0402
2LA7	3198 035 03320	3.3nF 5% 50V 0402
2LA8	3198 035 03320	3.3nF 5% 50V 0402
2LA9	3198 035 03320	3.3nF 5% 50V 0402
2LB0	2238 586 59812	100nF 20% 50V 0603
2LB1	2238 586 59812	100nF 20% 50V 0603
2LB3	2020 552 96618	1nF 10% 50V 0402
2LB4	2238 586 59812	100nF 20% 50V 0603
2LC0	4822 124 12108	100µF 20% 4V
2LC1	2022 552 05679	1µF 10% 16V 0805
2LC2	4822 124 12108	100µF 20% 4V
2LC3	2022 552 05679	1µF 10% 16V 0805
2LC4	2238 787 15641	22nF 5% 16V 0402
2LC5	2238 787 15641	22nF 5% 16V 0402
2LC6	2238 787 15641	22nF 5% 16V 0402
2LC7	2238 787 15641	22nF 5% 16V 0402
2LC8	2020 552 96628	10nF 10% 16V 0402
2LC9	2238 869 15101	100pF 5% 50V 0402
2LD0	2020 552 96628	10nF 10% 16V 0402
2LD1	2020 552 96618	1nF 10% 50V 0402
2LD2	2022 552 05679	1µF 10% 16V 0805
2LD3	2238 586 59812	100nF 20% 50V 0603
2LD4	4822 124 12108	100µF 20% 4V
2LD5	2020 552 96618	1nF 10% 50V 0402
2LD6	2020 552 96618	1nF 10% 50V 0402
2LD7	2020 552 96618	1nF 10% 50V 0402
2LD8	2020 552 96618	1nF 10% 50V 0402
2LD9	2020 552 96618	1nF 10% 50V 0402

2LE0	2020 552 96618	1nF 10% 50V 0402
2LE1	2022 552 05679	1µF 10% 16V 0805
2LE1	2222 780 15663	1µF 10% 0805
2LE2	2022 552 05679	1µF 10% 16V 0805
2LE2	2222 780 15663	1µF 10% 0805
2LE3	2020 552 96618	1nF 10% 50V 0402
2LE4	2238 586 59812	100nF 20% 50V 0603
2LE7	2238 787 15641	22nF 5% 16V 0402
2LF0	2020 552 96618	1nF 10% 50V 0402
2LF1	2238 787 15641	22nF 5% 16V 0402
2LF2	2020 552 96618	1nF 10% 50V 0402
2LF3	2020 552 96618	1nF 10% 50V 0402
2LF4	2238 787 15641	22nF 5% 16V 0402
2LF5	2020 552 96618	1nF 10% 50V 0402
2LF6	2020 552 96618	1nF 10% 50V 0402
2LF7	2020 552 96618	1nF 10% 50V 0402
2LF8	2022 552 05679	1µF 10% 16V 0805
2LF8	2222 780 15663	1µF 10% 0805
2LF9	2022 552 05679	1µF 10% 16V 0805
2LF9	2222 780 15663	1µF 10% 0805
2LG0	2020 552 96618	1nF 10% 50V 0402
2LG1	2238 586 59812	100nF 20% 50V 0603
2LG3	2020 552 96618	1nF 10% 50V 0402
2LG4	2020 552 96618	1nF 10% 50V 0402
2LG5	2020 552 96618	1nF 10% 50V 0402
2LG6	2020 552 96618	1nF 10% 50V 0402
2LH0	2238 869 15101	100pF 5% 50V 0402
2LH1	2020 552 96628	10nF 10% 16V 0402
2LH2	2020 552 96618	1nF 10% 50V 0402
2LH3	2020 552 96618	1nF 10% 50V 0402
2LH4	2020 552 96618	1nF 10% 50V 0402
2LH5	2020 552 96618	1nF 10% 50V 0402
2LH6	2020 552 96628	10nF 10% 16V 0402
2LH7	2238 586 59812	100nF 20% 50V 0603
2LH8	2020 552 96628	10nF 10% 16V 0402
2LJ1	2238 586 59812	100nF 20% 50V 0603
2LN3	2238 586 59812	100nF 20% 50V 0603
2LN4	2238 586 59812	100nF 20% 50V 0603
2LN5	2238 586 59812	100nF 20% 50V 0603
2LN6	2238 586 59812	100nF 20% 50V 0603
2LN7	2238 586 59812	100nF 20% 50V 0603
2LN8	2238 586 59812	100nF 20% 50V 0603
2LP2	2238 586 59812	100nF 20% 50V 0603
2LP3	2238 586 59812	100nF 20% 50V 0603
2LS5	2238 586 59812	100nF 20% 50V 0603
2LT0	2022 552 05679	1µF 10% 16V 0805
2LT1	2238 586 59812	100nF 20% 50V 0603
2LT2	2238 586 59812	100nF 20% 50V 0603
2LT3	2238 586 59812	100nF 20% 50V 0603
2LT4	2238 586 59812	100nF 20% 50V 0603
2LT5	2238 586 59812	100nF 20% 50V 0603
2LT6	2238 586 59812	100nF 20% 50V 0603
2LT7	2238 787 15641	22nF 5% 16V 0402
2LT8	2238 787 15641	22nF 5% 16V 0402
2LT9	2238 787 15641	22nF 5% 16V 0402
2M00	2020 552 96628	10nF 10% 16V 0402
2M01	2238 869 15101	100pF 5% 50V 0402
2M02	2020 552 96628	10nF 10% 16V 0402
2M03	2022 552 05679	1µF 10% 16V 0805
2M04	2020 552 96628	10nF 10% 16V 0402
2M05	2020 552 96628	10nF 10% 16V 0402
2M06	2020 552 96628	10nF 10% 16V 0402
2M07	2238 869 15101	100pF 5% 50V 0402
2M08	2238 869 15101	100pF 5% 50V 0402
2M0D	2238 869 15101	100pF 5% 50V 0402
2M0H	2238 869 15101	100pF 5% 50V 0402
2M0I	2020 552 96628	10nF 10% 16V 0402
2M0J	2238 869 15101	100pF 5% 50V 0402
2M10	2238 869 15101	100pF 5% 50V 0402
2M11	2238 787 15641	22nF 5% 16V 0402
2M12	2238 869 15101	100pF 5% 50V 0402
2M14	2022 031 00373	470µF 20% 16V
2M16	2238 869 15101	100pF 5% 50V 0402
2M17	2238 869 15101	100pF 5% 50V 0402
2M1B	2020 552 94427	100pF 5% 50V
2M1C	2020 552 94427	100pF 5% 50V
2M1D	2020 552 94427	100pF 5% 50V
2M1E	2020 552 94427	100pF 5% 50V
2M1F	2020 552 94427	100pF 5% 50V
2M1G	2020 552 94427	100pF 5% 50V
2M1H	2020 552 94427	100pF 5% 50V
2M1H	4822 051 30102	1kΩ 5% 0.062W
2M1H	4822 117 13548	1kΩ 5% 0402
2M1I	2020 552 94427	100pF 5% 50V
2M1J	2020 552 94427	100pF 5% 50V
2M1K	2020 552 94427	100pF 5% 50V
2M1N	2020 552 94427	100pF 5% 50V
2M1Q	2020 552 94427	100pF 5% 50V
2M1R	2238 586 59812	100nF 20% 50V 0603
2M1S	4822 124 11131	47µF 6.3V
2M1T	4822 124 11131	47µF 6.3V
2M40	2238 586 59812	100nF 20% 50V 0603
2M41	2238 586 59812	100nF 20% 50V 0603
2M42	2238 586 59812	100nF 20% 50V 0603
2M43	2238 586 59812	100nF 20% 50V 0603
2M44	2238 869 15101	100pF 5% 50V 0402
2M45	2238 869 15101	100pF 5% 50V 0402
2M46	2238 869 15101	100pF 5% 50V 0402
2M47	2238 869 15101	100pF 5% 50V 0402
2M48	2238 869 15101	100pF 5% 50V 0402
2M49	2238 869 15101	100pF 5% 50V 0402
2M4A	2022 552 05679	1µF 10% 16V 0805
2M4B	2022 552 05679	1µF 10% 16V 0805
2M4K	2238 586 59812	100nF 20% 50V 0603
2M4L	2022 552 05679	1µF 10% 16V 0805
2M51	2238 869 15101	100pF 5% 50V 0402
2M52	2238 869 15101	100pF 5% 50V 0402
2M53	2238 869 15101	100pF 5% 50V 0402
2M54	2238 869 15101	100pF 5% 50V 0402
2M55	2238 869 15101	100pF 5% 50V 0402
2M56	2238 869 15101	100pF 5% 50V 0402
2M57	2238 869 15101	100pF 5% 50V 0402
2M58	2238 869 15101	100pF 5% 50V 0402
2M59	2238 869 15101	100pF 5% 50V 0402
2M5A	2238 869 15101	100pF 5% 50V 0402
2M5B	2238 869 15101	100pF 5% 50V 0402
2M5C	2238 869 15101	100pF 5% 50V 0402
2M5D	2238 869 15101	100pF 5% 50V 0402
2M5E	2238 869 15101	100pF 5% 50V 0402
2M5H	4822 126 14519	22pF 5% 50V 0402
2M5I	2238 869 15101	100pF 5% 50V 0402
2M5J	2238 869 15101	100pF 5% 50V 0402
2M5K	2238 869 15101	100pF 5% 50V 0402
2M5L	2238 869 15101	100pF 5% 50V 0402
2M5N	2238 869 15101	100pF 5% 50V 0402
2M5P	2238 869 15101	100pF 5% 50V 0402
2M5Q	2238 869 15101	100pF 5% 50V 0402
2M5R	2238 869 15101	100pF 5% 50V 0402
2M5S	2238 869 15101	100pF 5% 50V 0402
2M5T	2238 869 15101	100pF 5% 50V 0402
2M5U	2238 869 15101	100pF 5% 50V 0402
2M5V	2238 869 15101	100pF 5% 50V 0402
2M6B	2022 552 05679	1µF 10% 16V 0805
2M6C	2022 552 05679	1µF 10% 16V 0805
2M6D	2238 586 59812	100nF 20% 50V 0603
2M80	2238 586 59812	100nF 20% 50V 0603
2M81	2020 552 96628	10nF 10% 16V 0402
2M82	2020 552 96628	10nF 10% 16V 0402
2M84	2020 004 90283	10µF 20% 10V 1206
2M85	2020 004 90283	10µF 20% 10V 1206
2N00	4822 126 14324	33pF 5% 50V 0402
2N01	4822 126 14324	33pF 5% 50V 0402
2N02	2238 586 59812	100nF 20% 50V 0603
2N03	2238 586 59812	100nF 20% 50V 0603
2N04	2238 586 59812	100nF 20% 50V 0603
2N05	2238 586 59812	100nF 20% 50V 0603
2N06	2238 586 59812	100nF 20% 50V 0603
2N07	2238 586 59812	100nF 20% 50V 0603
2N08	2238 586 59812	100nF 20% 50V 0603
2N09	2238 586 59812	100nF 20% 50V 0603
2N10	2238 586 59812	100nF 20% 50V 0603
2N11	2238 586 59812	100nF 20% 50V 0603
2N12	2238 586 59812	100nF 20% 50V 0603
2N13	2238 586 59812	100nF 20% 50V 0603
2N50	2238 869 15101	100pF 5% 50V 0402
2N51	2020 552 96628	10nF 10% 16V 0402
2N52	2022 552 05679	1µF 10% 16V 0805
2N53	4822 124 12108	100µF 20% 4V
2O00	4822 126 14519	22pF 5% 50V 0402
2O01	4822 126 14519	22pF 5% 50V 0402
2O02	2238 586 59812	100nF 20% 50V 0603
2O03	4822 124 23002	10µF 16V
2O04	2020 552 96618	1nF 10% 50V 0402
2O05	2020 552 96618	1nF 10% 50V 0402
2O06	2020 552 96618	1nF 10% 50V 0402
2O07	2020 552 96618	1nF 10% 50V 0402
2O10	2022 552 05679	1µF 10% 16V 0805
2O11	2238 586 59812	100nF 20% 50V 0603
2O12	2020 552 00141	4.7µF 10% 6.3V 0805
2O13	2238 586 59812	100nF 20% 50V 0603
2O14	2238 586 59812	100nF 20% 50V 0603
2O15	2238 586 59812	100nF 20% 50V 0603
2O16	2238 586 59812	100nF 20% 50V 0603
2O17	2020 552 00141	4.7µF 10% 6.3V 0805
2O18	2238 586 59812	100nF 20% 50V 0603
2O19	2238 586 59812	100nF 20% 50V 0603
2O20	2238 586 59812	100nF 20% 50V 0603
2O21	2238 586 59812	100nF 20% 50V 0603
2O22	2238 586 59812	100nF 20% 50V 0603
2O23	2238 586 59812	100nF 20% 50V 0603
2O24	2238 586 59812	100nF 20% 50V 0603
2O25	2238 586 59812	100nF 20% 50V 0603
2O26	2238 586 59812	100nF 20% 50V 0603
2O27	2238 586 59812	100nF 20% 50V 0603
2O28	2238 586 59812	100nF 20% 50V 0603
2P02	2238 586 59812	100nF 20% 50V 0603
2P03	2238 586 59812	100nF 20% 50V 0603
2P04	2238 586 59812	100nF 20% 50V 0603
2P06	2238 586 59812	100nF 20% 50V 0603
2P07	2238 586 59812	100nF 20% 50V 0603
2P09	2020 552 96618	1nF 10% 50V 0402
2P10	2238 586 59812	100nF 20% 50V 0603
2P15	2238 586 59812	100nF 20% 50V 0603
2P16	2238 586 59812	100nF 20% 50V 0603
2P18	2238 586 59812	100nF 20% 50V 0603
2P19	2238 586 59812	100nF 20% 50V 0603
2P20	2238 586 59812	100nF 20% 50V 0603
2P22	2238 586 59812	100nF 20% 50V 0603
2P23	2238 586 59812	100nF 20% 50V 0603
2P24	2020 552 96628	10nF 10% 16V 0402
2P25	2020 552 96628	10nF 10% 16V 0402
2P31	2238 586 59812	100nF 20% 50V 0603
2P32	2238 586 59812	100nF 20% 50V 0603
2P33	2238 586 59812	100nF 20% 50V 0603
2P35	2238 586 59812	100nF 20% 50V 0603
2P40	2238 586 59812	100nF 20% 50V 0603
2P41	2238 586 59812	100nF 20% 50V 0603
2P44	2020 004 90283	10µF 20% 10V 1206
2P76	2238 586 59812	100nF 20% 50V 0603
2P77	2238 586 59812	100nF 20% 50V 0603
2P80	2238 586 59812	100nF 20% 50V 0603
2P81	2238 586 59812	100nF 20% 50V 0603
2P82	2238 586 59812	100nF 20% 50V 0603
2Q00	2250 200 13672	4.7µF 10% 6.3V 0805
2Q01	2022 552 05679	1µF 10% 16V 0805
2Q01	2222 780 15663	1µF 10% 0805
2Q02	2250 200 13672	4.7µF 10% 6.3V 0805
2Q03	2022 552 05679	1µF 10% 16V 0805
2Q03	2222 780 15663	1µF 10% 0805
2Q04	2238 586 59812	100nF 20% 50V 0603
2Q05	2238 586 59812	100nF 20% 50V 0603
2Q06	2238 586 59812	100nF 20% 50V 0603
2Q07	2238 586 59812	100nF 20% 50V 0603
2Q08	2238 586 59812	100nF 20% 50V 0603
2Q09	2238 586 59812	100nF 20% 50V 0603
2Q10	2238 586 59812	100nF 20% 50V 0603
2Q11	2238 586 59812	100nF 20% 50V 0603
2Q12	2238 586 59812	100nF 20% 50V 0603
2Q13	2238 586 59812	100nF 20% 50V 0603
2Q14	2238 586 59812	100nF 20% 50V 0603
2Q15	2238 586 59812	100nF 20% 50V 0603
2Q16	2020 552 96628	10nF 10% 16V 0402
2Q17	2020 552 96628	10nF 10% 16V 0402
2Q18	2020 552 96628	10nF 10% 16V 0402
2Q19	2020 552 96628	10nF 10% 16V 0402
2Q20	2250 200 13672	4.7µF 10% 6.3V 0805
2Q21	2020 552 96628	10nF 10% 16V 0402
2Q22	2250 200 13672	4.7µF 10% 6.3V 0805
2Q23	2020 552 96628	10nF 10% 16V 0402
2Q24	2238 586 59812	100nF 20% 50V 0603
2Q25	3198 034 01290	12pF 1% 50V 0402
2Q26	2238 586 59812	100nF 20% 50V 0603
2Q27	2238 586 59812	100nF 20% 50V 0603
2Q28	2238 586 59812	100nF 20% 50V 0603
2Q29	2238 869 15101	100pF 5% 50V 0402
2Q30	2238 586 59812	100nF 20% 50V 0603
2Q31	4822 126 14249	560pF 10% 50V 0603
2Q32	2238 586 59812	100nF 20% 50V 0603
2Q33	2238 586 59812	100nF 20% 50V 0603
2Q34	2238 586 59812	100nF 20% 50V 0603
2Q35	2238 586 59812	100nF 20% 50V 0603
2Q36	2020 552 96628	10nF 10% 16V 0402
2Q37	2238 586 59812	100nF 20% 50V 0603
2Q38	2238 586 59812	100nF 20% 50V 0603
2Q39	2238 586 59812	100nF 20% 50V 0603
2Q40	2250 200 13672	4.7µF 10% 6.3V 0805
2Q41	2020 552 96628	10nF 10% 16V 0402
2Q42	2250 200 13672	4.7µF 10% 6.3V 0805
2Q43	2022 552 05679	1µF 10% 16V 0805
2Q44	2238 586 59812	100nF 20% 50V 0603
2Q45	2238 586 59812	100nF 20% 50V 0603
2Q46	2238 586 59812	100nF 20% 50V 0603
2Q47	2238 586 59812	100nF 20% 50V 0603
2Q48	2238 586 59812	100nF 20% 50V 0603
2Q49	2238 586 59812	100nF 20% 50V 0603
2Q50	2238 586 59812	100nF 20% 50V 0603
2Q51	2238 586 59812	100nF 20% 50V 0603
2Q52	2238 586 59812	100nF 20% 50V 0603
2Q53	2238 586 59812	100nF 20% 50V 0603
2Q54	2238 586 59812	100nF 20% 50V 0603
2Q55	2238 586 59812	100nF 20% 50V 0603
2Q56	2020 552 96628	10nF 10% 16V 0402
2Q57	2020 552 96628	10nF 10% 16V 0402
2Q58	2020 552 96628	10nF 10% 16V 0402
2Q59	2020 552 96628	10nF 10% 16V 0402
2Q60	2238 586 59812	100nF 20% 50V 0603
2Q61	2020 552 96618	1nF 10% 50V 0402
2Q62	2238 869 15101	100pF 5% 50V 0402
2Q63	2238 586 59812	100nF 20% 50V 0603
2Q64	2238 586 59812	100nF 20% 50V 0603
2Q65	2238 586 59812	100nF 20% 50V 0603
2Q66	2238 586 59812	100nF 20% 50V 0603

2Q67	2250 200 13672	4.7μF 10% 6.3V 0805
2Q68	2250 200 13672	4.7μF 10% 6.3V 0805
2Q69	2250 200 13672	4.7μF 10% 6.3V 0805
2Q70	2250 200 13672	4.7μF 10% 6.3V 0805
2Q71	2250 200 13672	4.7μF 10% 6.3V 0805
2Q72	2250 200 13672	4.7μF 10% 6.3V 0805
2Q73	2020 552 96628	10nF 10% 16V 0402
2Q74	2020 552 96628	10nF 10% 16V 0402
2Q75	2020 552 96628	10nF 10% 16V 0402
2Q76	2020 552 96628	10nF 10% 16V 0402
2Q77	2020 552 96628	10nF 10% 16V 0402
2Q78	2020 552 96628	10nF 10% 16V 0402
2Q79	2020 552 96628	10nF 10% 16V 0402
2Q80	2020 552 96628	10nF 10% 16V 0402
2Q82	2020 021 00215	220μF 20% 25V
2Q83	2020 021 00215	220μF 20% 25V
2R00	2238 586 59812	100nF 20% 50V 0603
2R01	2238 787 15641	22nF 5% 16V 0402
2R02	2238 787 15641	22nF 5% 16V 0402
2R03	2238 787 15641	22nF 5% 16V 0402
2R04	2238 586 59812	100nF 20% 50V 0603
2R05	2238 787 15641	22nF 5% 16V 0402
2R06	2238 586 59812	100nF 20% 50V 0603
2R07	2238 787 15641	22nF 5% 16V 0402
2R08	2238 586 59812	100nF 20% 50V 0603
2R09	2238 787 15641	22nF 5% 16V 0402
2R10	2020 552 96618	1nF 10% 50V 0402
2R11	2022 552 05679	1μF 10% 16V 0805
2R11	2222 780 15663	1μF 10% 0805
2R12	2022 552 05679	1μF 10% 16V 0805
2R12	2222 780 15663	1μF 10% 0805
2R13	2020 552 96618	1nF 10% 50V 0402
2R14	2238 787 15641	22nF 5% 16V 0402
2R15	2020 552 96637	10μF 10% 6.3V 0805
2R16	2022 552 05679	1μF 10% 16V 0805
2R16	2222 780 15663	1μF 10% 0805
2R17	2238 586 59812	100nF 20% 50V 0603
2R18	2020 552 96618	1nF 10% 50V 0402
2R19	2238 586 59812	100nF 20% 50V 0603
2R20	2020 552 96618	1nF 10% 50V 0402
2R21	2020 552 96618	1nF 10% 50V 0402
2R23	2020 552 96618	1nF 10% 50V 0402
2R25	2238 787 15641	22nF 5% 16V 0402
2R26	2238 586 59812	100nF 20% 50V 0603
2R28	2020 552 96618	1nF 10% 50V 0402
2R29	2238 787 15641	22nF 5% 16V 0402
2R30	2020 552 96618	1nF 10% 50V 0402
2R31	2238 787 15641	22nF 5% 16V 0402
2R32	2238 586 59812	100nF 20% 50V 0603
2R33	2238 787 15641	22nF 5% 16V 0402
2R34	4822 124 81058	47μF 20% 4V
2R35	2238 787 15641	22nF 5% 16V 0402
2R36	2020 552 96618	1nF 10% 50V 0402
2R37	2238 586 59812	100nF 20% 50V 0603
2R41	2238 787 15641	22nF 5% 16V 0402
2R42	2020 552 96618	1nF 10% 50V 0402
2R43	2020 552 96618	1nF 10% 50V 0402
2R44	2022 552 05679	1μF 10% 16V 0805
2R44	2222 780 15663	1μF 10% 0805
2R46	4822 124 81058	47μF 20% 4V
2R47	2020 552 96618	1nF 10% 50V 0402
2R48	2020 552 96618	1nF 10% 50V 0402
2R49	2020 552 96618	1nF 10% 50V 0402
2R50	2020 552 96618	1nF 10% 50V 0402
2R51	2020 552 96618	1nF 10% 50V 0402
2R52	2020 552 96618	1nF 10% 50V 0402
2R53	2020 552 96637	10μF 10% 6.3V 0805
2R54	2020 552 96618	1nF 10% 50V 0402
2R55	2020 552 96618	1nF 10% 50V 0402
2R56	2020 552 96618	1nF 10% 50V 0402
2R57	2020 552 96618	1nF 10% 50V 0402
2R58	2238 787 15641	22nF 5% 16V 0402
2R59	2238 787 15641	22nF 5% 16V 0402
2R60	2020 552 96618	1nF 10% 50V 0402
2R61	2022 552 05679	1μF 10% 16V 0805
2R61	2222 780 15663	1μF 10% 0805
2R62	2020 552 96618	1nF 10% 50V 0402
2R63	2020 552 96618	1nF 10% 50V 0402
2R64	2238 787 15641	22nF 5% 16V 0402
2R65	2020 552 96618	1nF 10% 50V 0402
2R66	2020 552 96618	1nF 10% 50V 0402
2R67	2238 586 59812	100nF 20% 50V 0603
2R68	2238 787 15641	22nF 5% 16V 0402
2R69	2238 787 15641	22nF 5% 16V 0402
2R70	2238 787 15641	22nF 5% 16V 0402
2R71	2020 552 96618	1nF 10% 50V 0402
2R72	2020 552 96618	1nF 10% 50V 0402
2R73	2020 552 96618	1nF 10% 50V 0402
2R74	2238 787 15641	22nF 5% 16V 0402
2R75	4822 124 81058	47μF 20% 4V
2R76	2238 787 15641	22nF 5% 16V 0402
2R77	2022 552 05679	1μF 10% 16V 0805
2R78	2238 787 15641	22nF 5% 16V 0402
2R79	2238 787 15641	22nF 5% 16V 0402
2R80	2238 586 59812	100nF 20% 50V 0603
2R81	2022 552 05679	1μF 10% 16V 0805
2R81	2222 780 15663	1μF 10% 0805
2R82	2238 787 15641	22nF 5% 16V 0402
2R83	2020 552 96618	1nF 10% 50V 0402
2R84	2238 787 15641	22nF 5% 16V 0402
2R86	2238 787 15641	22nF 5% 16V 0402
2R87	2238 787 15641	22nF 5% 16V 0402
2R88	2238 787 15641	22nF 5% 16V 0402
2R89	2020 552 96618	1nF 10% 50V 0402
2R90	2238 787 15641	22nF 5% 16V 0402
2R91	2020 552 96618	1nF 10% 50V 0402
2R92	2238 787 15641	22nF 5% 16V 0402
2R93	2020 552 96618	1nF 10% 50V 0402
2R94	2238 586 59812	100nF 20% 50V 0603
2R95	2238 787 15641	22nF 5% 16V 0402
2R96	2238 586 59812	100nF 20% 50V 0603
2R97	2238 787 15641	22nF 5% 16V 0402
2R98	2238 787 15641	22nF 5% 16V 0402
2R99	2238 586 59812	100nF 20% 50V 0603
2RA1	2020 552 96618	1nF 10% 50V 0402
2RA2	2020 021 00213	220μF 25V 20%
2RA2	2020 021 00215	220μF 20% 25V
2RA2	2020 021 00258	220μF 20% 25V
2RA3	2020 552 96618	1nF 10% 50V 0402
2RA4	2020 552 96618	1nF 10% 50V 0402
2RA5	2020 552 96618	1nF 10% 50V 0402
2RA6	2022 552 05679	1μF 10% 16V 0805
2RA6	2222 780 15663	1μF 10% 0805
2RA7	2022 552 05679	1μF 10% 16V 0805
2RA7	2222 780 15663	1μF 10% 0805
2RA8	2020 552 96637	10μF 10% 6.3V 0805
2RA9	2020 552 96618	1nF 10% 50V 0402
2RB2	2022 552 05679	1μF 10% 16V 0805
2RB2	2222 780 15663	1μF 10% 0805
2RB3	2020 552 96618	1nF 10% 50V 0402
2RB5	2022 552 05679	1μF 10% 16V 0805
2RB5	2222 780 15663	1μF 10% 0805
2RB6	2022 552 05679	1μF 10% 16V 0805
2RB6	2222 780 15663	1μF 10% 0805
2RC5	2020 552 96618	1nF 10% 50V 0402
2RC6	2020 021 00213	220μF 25V 20%
2RC6	2020 021 00215	220μF 20% 25V
2RC6	2020 021 00258	220μF 20% 25V
2RC7	2238 586 59812	100nF 20% 50V 0603
2RC8	2020 552 96637	10μF 10% 6.3V 0805
2T01	2020 552 96683	220nF 10% 50V
2T02	2020 004 90283	10μF 20% 10V 1206
2T03	4822 126 13879	220nF +80-20% 16V
2T04	2238 586 59812	100nF 20% 50V 0603
2T05	2020 552 96628	10nF 10% 16V 0402
2T08	2020 552 96683	220nF 10% 50V
2T09	2238 586 59812	100nF 20% 50V 0603
2T10	3198 034 04790	27pF 1% 50V 0402
2T12	2020 552 96628	10nF 10% 16V 0402
2T13	3198 034 04790	27pF 1% 50V 0402
2T14	2020 004 90283	10μF 20% 10V 1206
2T17	4822 124 11946	22μF 20% 16V
2T21	2020 552 96628	10nF 10% 16V 0402
2T22	2020 552 96628	10nF 10% 16V 0402
2T23	2238 586 59812	100nF 20% 50V 0603
2T24	2238 586 59812	100nF 20% 50V 0603
2T25	2238 586 59812	100nF 20% 50V 0603
2T26	2020 552 96683	220nF 10% 50V
2T27	3198 032 47170	47μF 20% 16V
2T28	2238 586 59812	100nF 20% 50V 0603
2T29	2238 586 59812	100nF 20% 50V 0603
2T31	2238 586 59812	100nF 20% 50V 0603
2T32	2238 586 59812	100nF 20% 50V 0603
2U00	2020 552 96618	1nF 10% 50V 0402
2U01	2238 586 59812	100nF 20% 50V 0603
2U02	2020 552 96628	10nF 10% 16V 0402
2U03	2022 552 05679	1μF 10% 16V 0805
2U04	2238 586 59812	100nF 20% 50V 0603
2U05	2020 552 96618	1nF 10% 50V 0402
2U06	2238 586 59812	100nF 20% 50V 0603
2U07	2238 586 59812	100nF 20% 50V 0603
2U08	2238 586 59812	100nF 20% 50V 0603
2U09	2022 552 05635	22μF 10% 16V
2U0A	2022 552 05635	22μF 10% 16V
2U0B	2020 552 96618	1nF 10% 50V 0402
2U0C	2238 586 59812	100nF 20% 50V 0603
2U0D	2020 552 96628	10nF 10% 16V 0402
2U0E	2022 552 05679	1μF 10% 16V 0805
2U0F	2238 586 59812	100nF 20% 50V 0603
2U0G	2020 552 96618	1nF 10% 50V 0402
2U0H	2238 586 59812	100nF 20% 50V 0603
2U0I	2238 586 59812	100nF 20% 50V 0603
2U0J	2238 586 59812	100nF 20% 50V 0603
2U0K	2022 552 05635	22μF 10% 16V
2U0L	2022 552 05635	22μF 10% 16V
2U0M	2020 552 96618	1nF 10% 50V 0402
2U0N	2238 586 59812	100nF 20% 50V 0603
2U0P	2020 552 96628	10nF 10% 16V 0402
2U0Q	2022 552 05679	1μF 10% 16V 0805
2U0R	2238 586 59812	100nF 20% 50V 0603
2U0S	2020 552 96618	1nF 10% 50V 0402
2U0T	2238 586 59812	100nF 20% 50V 0603
2U0U	2238 586 59812	100nF 20% 50V 0603
2U0V	2238 586 59812	100nF 20% 50V 0603
2U0W	2022 552 05635	22μF 10% 16V
2U0Y	2022 552 05635	22μF 10% 16V
2U0Z	3198 035 04710	470pF 50V 0402
2U10	3198 035 04710	470pF 50V 0402
2U11	3198 035 04710	470pF 50V 0402
2U12	2022 552 05635	22μF 10% 16V
2U13	2022 552 05635	22μF 10% 16V
2U14	2022 552 05635	22μF 10% 16V
2U15	2022 552 05679	1μF 10% 16V 0805
2U16	2022 552 05679	1μF 10% 16V 0805
2U17	2022 552 05679	1μF 10% 16V 0805
2U18	2022 552 05679	1μF 10% 16V 0805
2U19	2020 552 96628	10nF 10% 16V 0402
2U1A	2238 787 15641	22nF 5% 16V 0402
2U1B	2020 552 96628	10nF 10% 16V 0402
2U1C	2238 787 15641	22nF 5% 16V 0402
2U1D	2020 552 96628	10nF 10% 16V 0402
2U1E	2020 552 96623	2.2nF 10% 50V 0402
2U1F	5322 124 41945	22μF 20% 35V
2U1G	5322 124 41945	22μF 20% 35V
2U1I	2020 552 96628	10nF 10% 16V 0402
2U1J	2020 552 96628	10nF 10% 16V 0402
2U1K	2020 552 96628	10nF 10% 16V 0402
2U1M	2020 552 96618	1nF 10% 50V 0402
2U1N	2020 552 96618	1nF 10% 50V 0402
2U1P	2020 552 96618	1nF 10% 50V 0402
2U1Q	2020 552 96618	1nF 10% 50V 0402
2U1R	2020 552 96618	1nF 10% 50V 0402
2U1S	2020 552 96618	1nF 10% 50V 0402
2U1T	2020 552 96618	1nF 10% 50V 0402
2U1U	2238 586 59812	100nF 20% 50V 0603
2U1W	2020 552 96623	2.2nF 10% 50V 0402
2U1Y	2020 552 96623	2.2nF 10% 50V 0402
2U1Z	2020 552 96623	2.2nF 10% 50V 0402
2U22	2020 552 96684	470nF 10% 25V 0805
2U24	2022 552 05679	1μF 10% 16V 0805
2U25	2238 787 15641	22nF 5% 16V 0402
2U28	2022 552 05679	1μF 10% 16V 0805
2U29	2022 552 05679	1μF 10% 16V 0805
2U32	2020 021 00215	220μF 20% 25V
2U33	2020 021 00215	220μF 20% 25V
2U34	2022 552 05679	1μF 10% 16V 0805
2U35	2020 021 00215	220μF 20% 25V
2U36	2022 552 05679	1μF 10% 16V 0805
2U41	5322 124 41945	22μF 20% 35V
2U43	4822 126 14324	33pF 5% 50V 0402
2U44	3198 035 02210	220pF 5% 50V 0402
2U45	2022 552 05679	1μF 10% 16V 0805
2U46	2020 552 96683	220nF 10% 50V
2U60	2020 552 96618	1nF 10% 50V 0402
2U61	2238 586 59812	100nF 20% 50V 0603
2U62	2020 552 96628	10nF 10% 16V 0402
2U63	2022 552 05679	1μF 10% 16V 0805
2U64	2238 586 59812	100nF 20% 50V 0603
2U65	2020 552 96618	1nF 10% 50V 0402
2U66	2238 586 59812	100nF 20% 50V 0603
2U67	2238 586 59812	100nF 20% 50V 0603
2U68	2238 586 59812	100nF 20% 50V 0603
2U69	2022 552 05635	22μF 10% 16V
2U6A	2022 552 05635	22μF 10% 16V
2U6B	3198 035 04710	470pF 50V 0402
2U6C	2022 552 05635	22μF 10% 16V
2U6D	2020 552 96628	10nF 10% 16V 0402
2U6E	2020 552 96623	2.2nF 10% 50V 0402
2U6F	5322 124 41945	22μF 20% 35V
2U6G	2020 552 96628	10nF 10% 16V 0402
2U6H	2020 552 96618	1nF 10% 50V 0402
2U6I	2020 552 96618	1nF 10% 50V 0402
2U6J	2238 586 59812	100nF 20% 50V 0603
2U6K	5322 124 41945	22μF 20% 35V
2U6N	2020 552 96623	2.2nF 10% 50V 0402
2V00	2020 552 96618	1nF 10% 50V 0402
2V01	2020 552 96618	1nF 10% 50V 0402
2V02	2020 552 96618	1nF 10% 50V 0402
2V03	2238 586 59812	100nF 20% 50V 0603
2V04	2020 552 96618	1nF 10% 50V 0402
2V05	2238 869 15101	100pF 5% 50V 0402
2V06	2022 552 05679	1μF 10% 16V 0805
2V06	2222 780 15663	1μF 10% 0805
2V07	2022 552 05679	1μF 10% 16V 0805
2V07	2222 780 15663	1μF 10% 0805
2V08	2022 552 05679	1μF 10% 16V 0805
2V08	2222 780 15663	1μF 10% 0805
2V09	2022 552 05679	1μF 10% 16V 0805
2V09	2222 780 15663	1μF 10% 0805
2V10	2022 552 05679	1μF 10% 16V 0805
2V10	2222 780 15663	1μF 10% 0805
2V11	2022 552 05679	1μF 10% 16V 0805

2V11	2222 780 15663	1μF 10% 0805
2V12	2022 552 05679	1μF 10% 16V 0805
2V12	2222 780 15663	1μF 10% 0805
2V13	2022 552 05679	1μF 10% 16V 0805
2V13	2222 780 15663	1μF 10% 0805
2V14	2020 021 00215	220μF 20% 25V
2V16	2238 586 59812	100nF 20% 50V 0603
2V17	2238 586 59812	100nF 20% 50V 0603
2V18	2238 586 59812	100nF 20% 50V 0603
2V19	2238 586 59812	100nF 20% 50V 0603
2V20	2238 586 59812	100nF 20% 50V 0603
2V21	2238 586 59812	100nF 20% 50V 0603
2V22	2238 586 59812	100nF 20% 50V 0603
2V23	2238 586 59812	100nF 20% 50V 0603
2V24	2238 586 59812	100nF 20% 50V 0603
2V25	2238 586 59812	100nF 20% 50V 0603
2V26	2238 586 59812	100nF 20% 50V 0603
2V27	2238 586 59812	100nF 20% 50V 0603
2V28	2238 586 59812	100nF 20% 50V 0603
2V29	2238 586 59812	100nF 20% 50V 0603
2V30	2238 586 59812	100nF 20% 50V 0603
2V31	2238 586 59812	100nF 20% 50V 0603
2V32	2238 586 59812	100nF 20% 50V 0603
2V36	2020 552 96628	10nF 10% 16V 0402
2V37	2020 552 96628	10nF 10% 16V 0402
2V38	2020 552 96628	10nF 10% 16V 0402
2V39	2238 869 15101	100pF 5% 50V 0402
2V40	2238 869 15101	100pF 5% 50V 0402
2V41	2238 869 15101	100pF 5% 50V 0402
2V42	2238 869 15101	100pF 5% 50V 0402
2V43	2238 869 15101	100pF 5% 50V 0402
2V44	2238 869 15101	100pF 5% 50V 0402
2V45	2238 869 15101	100pF 5% 50V 0402
2V46	2238 869 15101	100pF 5% 50V 0402
2V47	2238 869 15101	100pF 5% 50V 0402
2V48	2238 869 15101	100pF 5% 50V 0402
2V49	2020 552 96628	10nF 10% 16V 0402
2V50	2020 552 96628	10nF 10% 16V 0402
2V51	2020 552 96628	10nF 10% 16V 0402
2V52	2238 869 15101	100pF 5% 50V 0402
2V53	2238 586 59812	100nF 20% 50V 0603
2V54	2022 552 05679	1μF 10% 16V 0805
2V54	2222 780 15663	1μF 10% 0805
2V55	2022 552 05679	1μF 10% 16V 0805
2V55	2222 780 15663	1μF 10% 0805
2V56	2238 869 15101	100pF 5% 50V 0402
2W01	2238 586 59812	100nF 20% 50V 0603
2W04	2238 586 59812	100nF 20% 50V 0603
2W09	4822 124 11946	22μF 20% 16V
2W14	2238 586 59812	100nF 20% 50V 0603
2W15	4822 126 14472	1μF 10% 10V 0805
2W16	4822 126 14472	1μF 10% 10V 0805
2W18	3198 035 71040	100nF 10% 16V 0402
2W53	2238 586 59812	100nF 20% 50V 0603
2W54	2238 586 59812	100nF 20% 50V 0603
2W55	2238 586 59812	100nF 20% 50V 0603
2W57	2238 586 59812	100nF 20% 50V 0603
2W58	2238 586 59812	100nF 20% 50V 0603
2W59	2238 586 59812	100nF 20% 50V 0603
2W60	2238 586 59812	100nF 20% 50V 0603
2W63	2238 586 59812	100nF 20% 50V 0603
2W64	2238 586 59812	100nF 20% 50V 0603
2W65	2238 586 59812	100nF 20% 50V 0603
2W66	2238 586 59812	100nF 20% 50V 0603
2W71	2238 586 59812	100nF 20% 50V 0603
2W72	2238 586 59812	100nF 20% 50V 0603
2W73	2238 586 59812	100nF 20% 50V 0603
2W74	2238 586 59812	100nF 20% 50V 0603
2W75	2238 586 59812	100nF 20% 50V 0603
2W76	2020 004 90283	10μF 20% 10V 1206
2W78	2238 586 59812	100nF 20% 50V 0603
2W79	2020 552 96628	10nF 10% 16V 0402
2W80	2020 552 96628	10nF 10% 16V 0402
2W81	2238 586 59812	100nF 20% 50V 0603
2W86	2238 586 59812	100nF 20% 50V 0603
2W91	2020 552 96628	10nF 10% 16V 0402
2W92	2020 552 96628	10nF 10% 16V 0402
2W93	2238 586 59812	100nF 20% 50V 0603
2Y38	2022 552 05679	1μF 10% 16V 0805
2Y39	2022 552 05679	1μF 10% 16V 0805
2Y40	2238 586 59812	100nF 20% 50V 0603
2Y41	2238 586 59812	100nF 20% 50V 0603
2Y42	2020 012 93822	47μF 20% 16V
2Y42	4822 124 80151	47μF 16V
2Y43	2238 586 59812	100nF 20% 50V 0603
2Y45	2238 586 59812	100nF 20% 50V 0603
2Z04	4822 051 30331	330Ω 5% 0.062W
2Z05	4822 051 30331	330Ω 5% 0.062W
2Z06	4822 051 30331	330Ω 5% 0.062W
2Z07	4822 051 30331	330Ω 5% 0.062W
2Z08	4822 051 30331	330Ω 5% 0.062W
2Z09	4822 051 30759	75Ω 5% 0.062W
2Z10	4822 051 30331	330Ω 5% 0.062W
2Z20	4822 051 30331	330Ω 5% 0.062W
2Z21	4822 051 30331	330Ω 5% 0.062W
2Z22	4822 051 30331	330Ω 5% 0.062W
2Z23	4822 051 30331	330Ω 5% 0.062W
2Z24	4822 051 30331	330Ω 5% 0.062W
2Z25	4822 051 30331	330Ω 5% 0.062W
2Z26	4822 051 30331	330Ω 5% 0.062W
2Z27	4822 051 30331	330Ω 5% 0.062W
2Z28	4822 051 30331	330Ω 5% 0.062W
2Z50	4822 051 30331	330Ω 5% 0.062W
2Z51	2238 586 59812	100nF 20% 50V 0603
2Z52	2238 586 59812	100nF 20% 50V 0603

3A01	3198 031 06810	680Ω 5% 0.01W 0402
3A05	3198 031 01810	180Ω 5% 0402
3A06	3198 031 02710	270Ω 5% 0.1W 0402
3A10	3198 031 04730	47Ω 5% 0402
3A11	3198 031 01830	18kΩ 5% 0.01W 0402
3A12	3198 031 04730	47Ω 5% 0402
3A13	3198 031 04730	47Ω 5% 0402
3A14	3198 031 01830	18kΩ 5% 0.01W 0402
3A15	4822 117 13601	22kΩ 5% 0402
3A17	4822 117 11297	100kΩ 5% 0.1W
3A19	4822 117 11297	100kΩ 5% 0.1W
3A20	4822 117 13603	33kΩ 5% 0402
3A21	3198 031 02730	27kΩ 5% 0402
3A22	4822 117 13603	33kΩ 5% 0402
3A23	3198 031 02730	27kΩ 5% 0402
3A24	4822 117 13603	33kΩ 5% 0402
3A25	4822 117 13603	33kΩ 5% 0402
3A26	3198 031 04730	47Ω 5% 0402
3A27	3198 031 04730	47Ω 5% 0402
3A28	4822 117 11297	100kΩ 5% 0.1W
3A29	4822 117 11297	100kΩ 5% 0.1W
3A31⚠	5322 117 11726	10Ω 5%
3A33	3198 031 01810	180Ω 5% 0402
3A38	3198 031 04730	47Ω 5% 0402
3A39	4822 117 13545	100Ω 1% 0402
3A40	4822 117 13545	100Ω 1% 0402
3A42	4822 117 13548	1kΩ 5% 0402
3A45	4822 117 13548	1kΩ 5% 0402
3A46	4822 117 13548	1kΩ 5% 0402
3A50	3198 031 04720	4.7kΩ 5% 0402
3A53	3198 031 03910	390Ω 1% 0402
3A56	3198 031 06820	6.8kΩ 5% 0.01W 0402
3A57	4822 117 13602	2.2kΩ 5% 0.01W 0402
3A60	3198 031 02730	27kΩ 5% 0402
3A65	3198 031 04720	4.7kΩ 5% 0402
3A67	3198 031 04720	4.7kΩ 5% 0402
3A80	4822 117 13545	100Ω 1% 0402
3B02	4822 117 13545	100Ω 1% 0402
3B02	4822 117 13597	330Ω 5% 0.01W 0402
3B03	4822 117 13545	100Ω 1% 0402
3B03	4822 117 13597	330Ω 5% 0.01W 0402
3B04	4822 117 13606	10kΩ 5% 0.01W 0402
3B05	3198 031 04730	47Ω 5% 0402
3B06	3198 031 04730	47Ω 5% 0402
3B07	4822 117 13545	100Ω 1% 0402
3B07	4822 117 13596	220Ω 5% 0.01W 0402
3B08	4822 117 13545	100Ω 1% 0402
3B08	4822 117 13596	220Ω 5% 0.01W 0402
3B14	4822 117 13545	100Ω 1% 0402
3B14	4822 117 13597	330Ω 5% 0.01W 0402
3B15	4822 117 13545	100Ω 1% 0402
3B15	4822 117 13597	330Ω 5% 0.01W 0402
3B16	4822 117 13606	10kΩ 5% 0.01W 0402
3B17	3198 031 04730	47Ω 5% 0402
3B18	3198 031 04730	47Ω 5% 0402
3B19	4822 117 13545	100Ω 1% 0402
3B19	4822 117 13596	220Ω 5% 0.01W 0402
3B20	4822 117 13545	100Ω 1% 0402
3B20	4822 117 13596	220Ω 5% 0.01W 0402
3B23	4822 117 13548	1kΩ 5% 0402
3B24	4822 117 13548	1kΩ 5% 0402
3B30	4822 117 13597	330Ω 5% 0.01W 0402
3B32	4822 117 13597	330Ω 5% 0.01W 0402
3B34	4822 117 13597	330Ω 5% 0.01W 0402
3B36	3198 031 01230	12kΩ 5% 0402
3B37	4822 117 13548	1kΩ 5% 0402
3B38	4822 117 13548	1kΩ 5% 0402
3B40	4822 117 13548	1kΩ 5% 0402
3B41	3198 031 03390	33Ω 1% 0402
3B43	4822 117 13606	10kΩ 5% 0.01W 0402
3B44	3198 031 03390	33Ω 1% 0402
3B45	4822 117 13606	10kΩ 5% 0.01W 0402
3B46	3198 031 03390	33Ω 1% 0402
3B48	2322 706 71002	1kΩ 1% 0402
3B49	3198 031 04730	47Ω 5% 0402
3B50	4822 117 13543	470Ω 5% 0402
3B51	3198 021 34780	4.7Ω 5% 0603
3B52	4822 117 13597	330Ω 5% 0.01W 0402
3B53	2322 702 60338	3.3Ω 5% 0603
3B56	2350 033 11339	4 x 33Ω 5%
3B57	2350 033 11339	4 x 33Ω 5%
3B58	2350 033 11339	4 x 33Ω 5%
3B59	2350 033 11339	4 x 33Ω 5%
3B60	4822 117 13545	100Ω 1% 0402
3B61	4822 117 13545	100Ω 1% 0402
3B62	2350 033 11339	4 x 33Ω 5%
3B63	4822 117 13605	Jumper 0402
3B64	4822 117 13543	470Ω 5% 0402
3B65	4822 117 13548	1kΩ 5% 0402
3B66	4822 117 13543	470Ω 5% 0402
3B67	4822 117 13548	1kΩ 5% 0402
3B69	4822 117 13605	Jumper 0402
3B70	4822 117 13543	470Ω 5% 0402
3B71	4822 117 13548	1kΩ 5% 0402
3B72	4822 117 13543	470Ω 5% 0402
3B73	4822 117 13548	1kΩ 5% 0402
3B75	4822 117 13605	Jumper 0402
3B76	4822 117 13543	470Ω 5% 0402
3B77	4822 117 13548	1kΩ 5% 0402
3B78	4822 117 13543	470Ω 5% 0402
3B79	4822 117 13548	1kΩ 5% 0402
3B80	3198 031 03390	33Ω 1% 0402
3B82	4822 117 13606	10kΩ 5% 0.01W 0402
3B83	4822 117 13606	10kΩ 5% 0.01W 0402
3B90	3198 031 02290	22Ω 5% 0.1W 0402
3B91	4822 117 11297	100kΩ 5% 0.1W
3B92	3198 031 02290	22Ω 5% 0.1W 0402
3B93	4822 117 11297	100kΩ 5% 0.1W
3C00	3198 031 02710	270Ω 5% 0.1W 0402
3C01	3198 031 06810	680Ω 5% 0.01W 0402
3C02	4822 117 13545	100Ω 1% 0402
3C05	3198 031 01810	180Ω 5% 0402
3C06	3198 031 02710	270Ω 5% 0.1W 0402
3C30	3198 031 05610	560Ω 5% 0.01W 0402
3C31⚠	5322 117 11726	10Ω 5%
3C32	3198 031 01220	1.2kΩ 5% 0.01W 0402
3C33	3198 031 01810	180Ω 5% 0402
3C34	3198 031 01220	1.2kΩ 5% 0.01W 0402
3C39	4822 117 13545	100Ω 1% 0402
3C40	4822 117 13545	100Ω 1% 0402
3C45	3198 031 04730	47Ω 5% 0402
3C50	3198 031 04720	4.7kΩ 5% 0402
3C53	3198 031 03910	390Ω 1% 0402
3C56	3198 031 06820	6.8kΩ 5% 0.01W 0402
3C57	4822 117 13602	2.2kΩ 5% 0.01W 0402
3C60	3198 031 02730	27kΩ 5% 0402
3C65	3198 031 04720	4.7kΩ 5% 0402
3C67	3198 031 04720	4.7kΩ 5% 0402
3C80	4822 117 13545	100Ω 1% 0402
3C81	3198 031 03390	33Ω 1% 0402
3C81	4822 117 13605	Jumper 0402
3D00	4822 117 13605	Jumper 0402
3D01	3198 031 04720	4.7kΩ 5% 0402
3D02	4822 117 13606	10kΩ 5% 0.01W 0402
3D05	4822 117 13603	33kΩ 5% 0402
3D05	4822 117 13605	Jumper 0402
3D07	4822 117 13603	33kΩ 5% 0402
3D07	4822 117 13605	Jumper 0402
3D09	4822 117 13602	2.2kΩ 5% 0.01W 0402
3D10	2322 762 60332	3.3kΩ 5% 2512
3D11	2350 033 11223	22kΩ 5%
3D12	2322 762 60332	3.3kΩ 5% 2512
3D13	2350 033 11223	22kΩ 5%
3D14	3198 031 02240	220kΩ 5% 0.1W 0402
3D15	3198 031 04730	47Ω 5% 0402
3D16	3198 031 02240	220kΩ 5% 0.1W 0402
3D17	3198 031 05620	5.6kΩ 5% 0.01W 0402
3D18	3198 031 02720	2.7kΩ 5% 0.01W 0402
3D19	3198 031 02240	220kΩ 5% 0.1W 0402
3D20	3198 031 04730	47Ω 5% 0402
3D21	3198 031 04730	47Ω 5% 0402
3D22	4822 117 13602	2.2kΩ 5% 0.01W 0402
3D23	3198 031 02240	220kΩ 5% 0.1W 0402
3D24	3198 031 04730	47Ω 5% 0402
3D25	3198 031 04730	47Ω 5% 0402
3D26	3198 031 04730	47Ω 5% 0402
3D27	3198 031 04730	47Ω 5% 0402
3D28	4822 117 13601	22kΩ 5% 0402
3D29	3198 031 02720	2.7kΩ 5% 0.01W 0402
3D30	3198 031 04730	47Ω 5% 0402
3D31	4822 117 13602	2.2kΩ 5% 0.01W 0402
3D32	4822 117 11297	100kΩ 5% 0.1W
3D33	3198 031 04730	47Ω 5% 0402
3D34	4822 117 13606	10kΩ 5% 0.01W 0402
3D35	3198 031 04730	47Ω 5% 0402
3D36	3198 031 04730	47Ω 5% 0402
3D37	4822 117 13603	33kΩ 5% 0402
3D38	3198 031 04720	4.7kΩ 5% 0402
3D39	4822 117 13602	2.2kΩ 5% 0.01W 0402
3D40	4822 117 13606	10kΩ 5% 0.01W 0402
3D41	4822 117 13601	22kΩ 5% 0402
3D42	3198 031 01220	1.2kΩ 5% 0.01W 0402
3D43	3198 031 01220	1.2kΩ 5% 0.01W 0402

3D44	4822 117 13601	22kΩ 5% 0402
3D45	2322 762 60107	0.1Ω 5% 2512
3D46	2322 762 60107	0.1Ω 5% 2512
3D47	3198 031 04780	4.7Ω 5% 0402
3D48	3198 031 04780	4.7Ω 5% 0402
3D49	2322 762 60331	330Ω 5% 2512
3D50	2322 762 60331	330Ω 5% 2512
3D51	3198 031 04720	4.7kΩ 5% 0402
3D52	3198 031 04720	4.7kΩ 5% 0402
3D53	3198 031 01830	18kΩ 5% 0.01W 0402
3D54	3198 031 01830	18kΩ 5% 0.01W 0402
3D55	3198 031 06810	680Ω 5% 0.01W 0402
3D56	3198 031 06810	680Ω 5% 0.01W 0402
3D57	4822 117 13601	22kΩ 5% 0402
3D58	4822 117 13601	22kΩ 5% 0402
3D59	3198 031 01220	1.2kΩ 5% 0.01W 0402
3D60	3198 031 01220	1.2kΩ 5% 0.01W 0402
3D61	3198 031 03920	3.9kΩ 5% 0402
3D61	3198 031 04720	4.7kΩ 5% 0402
3D62	4822 117 11297	100kΩ 5% 0.1W
3D63	3198 031 03920	3.9kΩ 5% 0402
3D63	3198 031 04720	4.7kΩ 5% 0402
3D64	4822 117 11297	100kΩ 5% 0.1W
3D65	4822 117 13606	10kΩ 5% 0.01W 0402
3D66	4822 117 13606	10kΩ 5% 0.01W 0402
3D67	3198 031 05610	560Ω 5% 0.01W 0402
3D68	3198 031 05610	560Ω 5% 0.01W 0402
3D69	4822 117 13601	22kΩ 5% 0402
3D70	2322 762 60332	3.3kΩ 5% 2512
3D71	2350 033 11223	22kΩ 5%
3D72	2322 762 60332	3.3kΩ 5% 2512
3D73	2350 033 11223	22kΩ 5%
3D74	4822 117 13601	22kΩ 5% 0402
3D75	3198 031 01520	1.2kΩ 5% 0.01W 0402
3D76	3198 031 01520	1.2kΩ 5% 0.01W 0402
3D77	4822 117 13601	22kΩ 5% 0402
3D78	2322 762 60107	0.1Ω 5% 2512
3D79	2322 762 60107	0.1Ω 5% 2512
3D80	3198 031 04780	4.7Ω 5% 0402
3D81	3198 031 04780	4.7Ω 5% 0402
3D82	2322 762 60331	330Ω 5% 2512
3D83	2322 762 60331	330Ω 5% 2512
3D84	3198 031 04720	4.7kΩ 5% 0402
3D85	3198 031 04720	4.7kΩ 5% 0402
3D86	3198 031 01830	18kΩ 5% 0.01W 0402
3D87	3198 031 01830	18kΩ 5% 0.01W 0402
3D88	3198 031 06810	680Ω 5% 0.01W 0402
3D89	3198 031 06810	680Ω 5% 0.01W 0402
3D90	4822 117 13601	22kΩ 5% 0402
3D91	4822 117 13601	22kΩ 5% 0402
3D92	3198 031 01520	1.2kΩ 5% 0.01W 0402
3D93	3198 031 01520	1.2kΩ 5% 0.01W 0402
3D94	3198 031 03920	3.9kΩ 5% 0402
3D94	3198 031 04720	4.7kΩ 5% 0402
3D95	4822 117 11297	100kΩ 5% 0.1W
3D96	3198 031 03920	3.9kΩ 5% 0402
3D96	3198 031 04720	4.7kΩ 5% 0402
3D97	4822 117 11297	100kΩ 5% 0.1W
3D98	4822 117 13606	10kΩ 5% 0.01W 0402
3D99	4822 117 13606	10kΩ 5% 0.01W 0402
3DA1	3198 031 05610	560Ω 5% 0.01W 0402
3DA2	3198 031 05610	560Ω 5% 0.01W 0402
3DA3	3198 031 01820	1.8kΩ 5% 0.01W 0402
3DA4	3198 031 03920	3.9kΩ 5% 0402
3DA5	4822 117 13606	10kΩ 5% 0.01W 0402
3DA6	4822 117 13603	33kΩ 5% 0402
3DA7	4822 117 13606	10kΩ 5% 0.01W 0402
3DA8	4822 117 13606	10kΩ 5% 0.01W 0402
3DC2	4822 117 13605	Jumper 0402
3DC8	4822 117 13605	Jumper 0402
3DF1	4822 117 13545	100Ω 1% 0402
3DF2	3198 034 04790	27pF 1% 50V 0402
3DF2	4822 126 14324	33pF 5% 50V 0402
3DF3	3198 034 04790	27pF 1% 50V 0402
3DF3	4822 126 14324	33pF 5% 50V 0402
3DF4	4822 126 14324	33pF 5% 50V 0402
3DF5	4822 126 14324	33pF 5% 50V 0402
3F00	3198 031 01810	180Ω 5% 0402
3F01	3198 031 01810	180Ω 5% 0402
3F02	2322 705 70569	56Ω 5% 0402
3F03	3198 031 01810	180Ω 5% 0402
3F04	3198 031 01810	180Ω 5% 0402
3F05	2322 705 70569	56Ω 5% 0402
3F06	3198 031 01810	180Ω 5% 0402
3F07	3198 031 01810	180Ω 5% 0402
3F08	2322 705 70569	56Ω 5% 0402
3F09	3198 031 01810	180Ω 5% 0402
3F0A	3198 031 01810	180Ω 5% 0402
3F0B	2322 705 70569	56Ω 5% 0402
3F0C	3198 031 01810	180Ω 5% 0402
3F0D	3198 031 01810	180Ω 5% 0402
3F0E	2322 705 70569	56Ω 5% 0402
3F0F	3198 031 01810	180Ω 5% 0402
3F0G	3198 031 01810	180Ω 5% 0402
3F0H	2322 705 70569	56Ω 5% 0402
3F0I	3198 031 01810	180Ω 5% 0402
3F0J	3198 031 01810	180Ω 5% 0402
3F0K	2322 705 70569	56Ω 5% 0402
3F0L	3198 031 01810	180Ω 5% 0402
3F0M	3198 031 01810	180Ω 5% 0402
3F0N	2322 705 70569	56Ω 5% 0402
3F0P	3198 031 01810	180Ω 5% 0402
3F0Q	3198 031 01810	180Ω 5% 0402
3F0R	2322 705 70569	56Ω 5% 0402
3F0S	3198 031 01810	180Ω 5% 0402
3F0T	3198 031 01810	180Ω 5% 0402
3F0U	2322 705 70569	56Ω 5% 0402
3F0V	3198 031 01810	180Ω 5% 0402
3F0W	3198 031 01810	180Ω 5% 0402
3F0Y	2322 705 70569	56Ω 5% 0402
3F0Z	3198 031 01810	180Ω 5% 0402
3F10	3198 031 01810	180Ω 5% 0402
3F11	2322 705 70569	56Ω 5% 0402
3F12	4822 117 13606	10kΩ 5% 0.01W 0402
3F13	3198 031 04720	4.7kΩ 5% 0402
3F14	4822 117 13545	100Ω 1% 0402
3F15	4822 117 13545	100Ω 1% 0402
3F18	3198 031 04720	4.7kΩ 5% 0402
3F1F	4822 117 13545	100Ω 1% 0402
3F1G	4822 117 13545	100Ω 1% 0402
3F1H	4822 117 13545	100Ω 1% 0402
3F1I	4822 117 13545	100Ω 1% 0402
3F1J	4822 117 13548	1kΩ 5% 0402
3F1K	4822 117 13548	1kΩ 5% 0402
3F1M	4822 117 13548	1kΩ 5% 0402
3F1N	4822 117 13606	10kΩ 5% 0.01W 0402
3F1P	4822 117 11297	100kΩ 5% 0.1W
3F1Q	4822 117 13606	10kΩ 5% 0.01W 0402
3F1R	4822 117 13603	33kΩ 5% 0402
3F1S	4822 117 13606	10kΩ 5% 0.01W 0402
3F1T	4822 117 11297	100kΩ 5% 0.1W
3F1U	4822 117 11297	100kΩ 5% 0.1W
3F1V	3198 031 03320	3.3kΩ 5% 0402
3F1W	3198 031 04730	47Ω 5% 0402
3F1Y	3198 031 04730	47Ω 5% 0402
3F1Z	4822 117 13606	10kΩ 5% 0.01W 0402
3F21	4822 117 13606	10kΩ 5% 0.01W 0402
3F22	4822 117 13546	47Ω 5% 0402
3F23	3198 031 04720	4.7kΩ 5% 0402
3F24	3198 031 04720	4.7kΩ 5% 0402
3F2D	4822 117 13602	2.2kΩ 5% 0.01W 0402
3F2S	4822 117 13545	100Ω 1% 0402
3F2T	4822 117 13545	100Ω 1% 0402
3F2U	4822 117 13546	47Ω 5% 0402
3F2W	3198 031 04720	4.7kΩ 5% 0402
3F2Y	2322 706 71003	10kΩ 5% 0402
3F2Y	4822 117 13606	10kΩ 5% 0.01W 0402
3F2Z	4822 117 13548	1kΩ 5% 0402
3F30	2322 706 71203	12kΩ 5% 0402
3F30	3198 031 01230	12kΩ 5% 0402
3F31	2322 706 78202	8.2kΩ 1% 0402 RC321
3F31	3198 031 08220	8.2kΩ 5% 0.5W
3F36	3198 031 04730	47Ω 5% 0402
3F36	4822 117 13606	10kΩ 5% 0.01W 0402
3F39	4822 117 13606	10kΩ 5% 0.01W 0402
3F3A	4822 117 13606	10kΩ 5% 0.01W 0402
3F3B	3198 031 04720	4.7kΩ 5% 0402
3F3C	3198 031 04720	4.7kΩ 5% 0402
3F3E	4822 117 13545	100Ω 1% 0402
3F3G	4822 117 13545	100Ω 1% 0402
3F3H	4822 117 13548	1kΩ 5% 0402
3F3I	3198 031 01210	120Ω 5% 0.01W 0402
3F3J	3198 031 01210	120Ω 5% 0.01W 0402
3F3K	4822 117 13548	1kΩ 5% 0402
3F3L	4822 117 11297	100kΩ 5% 0.1W
3F3P	4822 117 13545	100Ω 1% 0402
3F3Q	4822 117 13545	100Ω 1% 0402
3F3S	3198 031 03390	33Ω 1% 0402
3F3T	2350 033 11339	4 x 33Ω 5%
3F3Y	2350 033 11339	4 x 33Ω 5%
3F41	4822 117 13545	100Ω 1% 0402
3F42	2350 033 11339	4 x 33Ω 5%
3F43	4822 117 13545	100Ω 1% 0402
3F45	3198 031 03390	33Ω 1% 0402
3F46	2350 033 11339	4 x 33Ω 5%
3F48	3198 031 03390	33Ω 1% 0402
3F49	3198 031 01090	10Ω 5% 0.01W 0402
3F4A	3198 031 01050	1MΩ 5% 0402
3F4B	4822 117 13546	47Ω 5% 0402
3F4C	4822 117 13545	100Ω 1% 0402
3F4D	4822 117 13545	100Ω 1% 0402
3F4E	4822 117 13545	100Ω 1% 0402
3F4F	4822 117 13545	100Ω 1% 0402
3F4H	3198 031 04720	4.7kΩ 5% 0402
3F4I	3198 031 04720	4.7kΩ 5% 0402
3F4J	4822 117 13602	2.2kΩ 5% 0.01W 0402
3F4K	4822 117 13602	2.2kΩ 5% 0.01W 0402
3F4N	3198 031 04720	4.7kΩ 5% 0402
3F4P	3198 031 04720	4.7kΩ 5% 0402
3F4Q	3198 031 04720	4.7kΩ 5% 0402
3F4S	3198 031 03390	33Ω 1% 0402
3F4T	3198 031 03390	33Ω 1% 0402
3F4U	3198 031 03390	33Ω 1% 0402
3F4V	3198 031 03390	33Ω 1% 0402
3F4W	3198 031 03390	33Ω 1% 0402
3F4X	3198 031 03390	33Ω 1% 0402
3F4Y	3198 031 03390	33Ω 1% 0402
3F4Z	3198 031 03390	33Ω 1% 0402
3F55	4822 117 13546	47Ω 5% 0402
3F56	4822 117 13545	100Ω 1% 0402
3F57	4822 117 13606	10kΩ 5% 0.01W 0402
3F5A	3198 031 03390	33Ω 1% 0402
3F5B	3198 031 03390	33Ω 1% 0402
3F5C	3198 031 03390	33Ω 1% 0402
3F5D	3198 031 03390	33Ω 1% 0402
3F5E	3198 031 03390	33Ω 1% 0402
3F5F	3198 031 03390	33Ω 1% 0402
3F5G	3198 031 03390	33Ω 1% 0402
3F5H	3198 031 03390	33Ω 1% 0402
3F5I	3198 031 03390	33Ω 1% 0402
3F5J	3198 031 03390	33Ω 1% 0402
3F5K	3198 031 03390	33Ω 1% 0402
3F5L	3198 031 03390	33Ω 1% 0402
3F5M	3198 031 03390	33Ω 1% 0402
3F5N	3198 031 03390	33Ω 1% 0402
3F5O	3198 031 03390	33Ω 1% 0402
3F5P	3198 031 03390	33Ω 1% 0402
3F5Q	3198 031 03390	33Ω 1% 0402
3F5R	3198 031 03390	33Ω 1% 0402
3F5S	3198 031 03390	33Ω 1% 0402
3F5T	3198 031 03390	33Ω 1% 0402
3F5U	3198 031 03390	33Ω 1% 0402
3F5V	3198 031 03390	33Ω 1% 0402
3F5W	3198 031 03390	33Ω 1% 0402
3F5X	3198 031 03390	33Ω 1% 0402
3F5Y	3198 031 03390	33Ω 1% 0402
3F5Z	3198 031 03390	33Ω 1% 0402
3F61	4822 117 13545	100Ω 1% 0402
3F62	4822 117 13545	100Ω 1% 0402
3F63	4822 117 13596	220Ω 5% 0.01W 0402
3F65	4822 117 13606	10kΩ 5% 0.01W 0402
3F66	4822 117 13606	10kΩ 5% 0.01W 0402
3F67	4822 117 13545	100Ω 1% 0402
3F68	4822 117 13546	47Ω 5% 0402
3F69	4822 117 13546	47Ω 5% 0402
3F6A	3198 031 03390	33Ω 1% 0402
3F70	4822 117 13546	47Ω 5% 0402
3F71	4822 117 13606	10kΩ 5% 0.01W 0402
3F72	4822 117 13606	10kΩ 5% 0.01W 0402
3F73	4822 117 13545	100Ω 1% 0402
3F74	4822 117 13545	100Ω 1% 0402
3F75	4822 117 13546	47Ω 5% 0402
3F76	4822 117 13545	100Ω 1% 0402
3F77	4822 117 13545	100Ω 1% 0402
3F78	4822 117 13545	100Ω 1% 0402
3F79	4822 117 13597	330Ω 5% 0.01W 0402
3F80	4822 117 13543	470Ω 5% 0402
3F81	4822 117 13597	330Ω 5% 0.01W 0402
3F82	4822 117 13597	330Ω 5% 0.01W 0402
3F83	4822 117 11297	100kΩ 5% 0.1W
3F84	4822 117 11297	100kΩ 5% 0.1W
3F90	4822 117 13602	2.2kΩ 5% 0.01W 0402
3F91	4822 117 13548	1kΩ 5% 0402
3F92	4822 117 13545	100Ω 1% 0402
3F93	4822 117 13545	100Ω 1% 0402
3F94	3198 031 04720	4.7kΩ 5% 0402
3H01	3198 031 04720	4.7kΩ 5% 0402
3H02	3198 031 06890	68Ω 5% 0402
3H03	3198 031 04720	4.7kΩ 5% 0402
3H04	3198 031 01820	1.8kΩ 5% 0.01W 0402
3H05	3198 031 01820	1.8kΩ 5% 0.01W 0402
3H06	3198 031 02290	22Ω 5% 0.1W 0402
3H08	3198 031 04720	4.7kΩ 5% 0402
3H10	3198 031 04720	4.7kΩ 5% 0402
3H11	3198 031 04720	4.7kΩ 5% 0402
3H12	3198 031 02290	22Ω 5% 0.1W 0402
3H13	3198 031 04720	4.7kΩ 5% 0402
3H14	3198 031 02290	22Ω 5% 0.1W 0402
3H15	4822 117 13545	100Ω 1% 0402
3H16	3198 031 04720	4.7kΩ 5% 0402
3H17	3198 031 04720	4.7kΩ 5% 0402
3H18	3198 031 04720	4.7kΩ 5% 0402
3H19	4822 117 13548	1kΩ 5% 0402
3H20	2322 705 70399	39Ω 5% 0402
3H21	2322 705 70399	39Ω 5% 0402
3H22	3198 031 04720	4.7kΩ 5% 0402
3H23	3198 031 04720	4.7kΩ 5% 0402
3H24	4822 117 13545	100Ω 1% 0402
3H26	4822 117 13545	100Ω 1% 0402
3H27	4822 117 13606	10kΩ 5% 0.01W 0402
3H28	3198 031 04720	4.7kΩ 5% 0402
3H29	3198 031 04720	4.7kΩ 5% 0402

3H30	4822 117 13545	100Ω 1% 0402
3H31	3198 031 04720	4.7kΩ 5% 0402
3H32	3198 031 04720	4.7kΩ 5% 0402
3H33	4822 117 13545	100Ω 1% 0402
3H40	4822 117 13545	100Ω 1% 0402
3H44	3198 031 04720	4.7kΩ 5% 0402
3H45	3198 031 04720	4.7kΩ 5% 0402
3H46	3198 031 04720	4.7kΩ 5% 0402
3H48	3198 031 06890	68Ω 5% 0402
3H49	3198 031 06890	68Ω 5% 0402
3H50	4822 117 13548	1kΩ 5% 0402
3H51	4822 117 13548	1kΩ 5% 0402
3H52	3198 031 04720	4.7kΩ 5% 0402
3H70	3198 031 04720	4.7kΩ 5% 0402
3H71	3198 031 04720	4.7kΩ 5% 0402
3H72	4822 117 13545	100Ω 1% 0402
3H73	4822 117 13546	47Ω 5% 0402
3H74	3198 031 06890	68Ω 5% 0402
3H75	4822 117 13545	100Ω 1% 0402
3H79	3198 031 02290	22Ω 5% 0.1W 0402
3H80	2350 033 11103	4x 10kΩ 5% Netw.
3H81	2350 033 11103	4x 10kΩ 5% Netw.
3H82	3198 031 01050	1MΩ 5% 0402
3H83	3198 031 04720	4.7kΩ 5% 0402
3H84	3198 031 04720	4.7kΩ 5% 0402
3H85	3198 031 04720	4.7kΩ 5% 0402
3H86	3198 031 04720	4.7kΩ 5% 0402
3H87	3198 031 04720	4.7kΩ 5% 0402
3H88	3198 031 04720	4.7kΩ 5% 0402
3H89	3198 031 01590	15Ω 5% 0402
3H90	3198 031 04720	4.7kΩ 5% 0402
3H91	3198 031 04720	4.7kΩ 5% 0402
3H92	3198 031 07590	75Ω 5% 0402
3H93	3198 031 04720	4.7kΩ 5% 0402
3H94	3198 031 04720	4.7kΩ 5% 0402
3H95	4822 117 13597	330Ω 5% 0.01W 0402
3H97	3198 031 04720	4.7kΩ 5% 0402
3H98	4822 117 13545	100Ω 1% 0402
3H99	4822 117 13545	100Ω 1% 0402
3I00	4822 117 13545	100Ω 1% 0402
3I01	4822 117 11297	100kΩ 5% 0.1W
3I02	4822 117 13545	100Ω 1% 0402
3I03	4822 117 11297	100kΩ 5% 0.1W
3I12	4822 117 13545	100Ω 1% 0402
3I13	4822 117 11297	100kΩ 5% 0.1W
3I14	4822 117 13545	100Ω 1% 0402
3I15	4822 117 11297	100kΩ 5% 0.1W
3I16	4822 117 13601	22kΩ 5% 0402
3I17	3198 031 04730	47Ω 5% 0402
3I18	3198 031 06890	68Ω 5% 0402
3I19⚠	4822 117 11151	1Ω 5%
3I20	3198 031 01210	120Ω 5% 0.01W 0402
3I21	4822 117 13545	100Ω 1% 0402
3I22	4822 117 11297	100kΩ 5% 0.1W
3I23	4822 117 13545	100Ω 1% 0402
3I24	4822 117 13548	1kΩ 5% 0402
3I25	4822 117 13545	100Ω 1% 0402
3I26	4822 117 11297	100kΩ 5% 0.1W
3I27	4822 117 13545	100Ω 1% 0402
3I28	4822 117 13548	1kΩ 5% 0402
3I31	4822 051 30759	75Ω 5% 0.062W
3I32	4822 051 30759	75Ω 5% 0.062W
3I33	4822 051 30759	75Ω 5% 0.062W
3I46	3198 031 07590	75Ω 5% 0402
3I51	4822 051 30759	75Ω 5% 0.062W
3I52	4822 051 30759	75Ω 5% 0.062W
3I53	4822 051 30759	75Ω 5% 0.062W
3I54	4822 051 30101	100Ω 5% 0.062W
3I55	3198 031 04720	4.7kΩ 5% 0402
3I56	3198 031 04720	4.7kΩ 5% 0402
3I57	4822 051 30101	100Ω 5% 0.062W
3I58	3198 031 04720	4.7kΩ 5% 0402
3I59	4822 117 13602	2.2kΩ 5% 0.01W 0402
3I59	4822 117 13605	Jumper 0402
3I60	4822 117 11297	100kΩ 5% 0.1W
3I61	4822 117 13602	2.2kΩ 5% 0.01W 0402
3I62	4822 117 13545	100Ω 1% 0402
3I63	4822 117 13606	10kΩ 5% 0.01W 0402
3I64	3198 031 04720	4.7kΩ 5% 0402
3I65	4822 117 13545	100Ω 1% 0402
3I66	3198 031 02240	220kΩ 5% 0.1W 0402
3I68	4822 051 30102	1kΩ 5% 0.062W
3I69	4822 117 13606	10kΩ 5% 0.01W 0402
3I70	3198 031 02240	220kΩ 5% 0.1W 0402
3I71	4822 117 13606	10kΩ 5% 0.01W 0402
3I74	3198 031 03930	39kΩ 5% 0402
3I75	2322 734 63309	33Ω 1% 0.1W 0805
3I76	2322 734 63309	33Ω 1% 0.1W 0805
3I77	3198 031 01510	150Ω 5% 0.01W 0402
3I78	4822 051 30221	220Ω 5% 0.062W
3I79	3198 031 04740	470kΩ 5% 0402
3I80	4822 117 11297	100kΩ 5% 0.1W
3I81	2322 734 63309	33Ω 1% 0.1W 0805
3I82	2322 734 63309	33Ω 1% 0.1W 0805
3I83	3198 031 01510	150Ω 5% 0.01W 0402
3I84	3198 031 02240	220kΩ 5% 0.1W 0402
3I86	4822 051 30102	1kΩ 5% 0.062W
3I87	4822 117 13606	10kΩ 5% 0.01W 0402
3I88	3198 031 02240	220kΩ 5% 0.1W 0402
3I89	4822 051 30221	220Ω 5% 0.062W
3I90	3198 031 04740	470kΩ 5% 0402
3I91	4822 117 13606	10kΩ 5% 0.01W 0402
3I92	3198 031 03930	39kΩ 5% 0402
3I93	4822 117 13606	10kΩ 5% 0.01W 0402
3I94	4822 117 13606	10kΩ 5% 0.01W 0402
3I95	3198 031 06840	680kΩ 5% 0.01W 0402
3I96	3198 031 04730	47Ω 5% 0402
3I97	4822 117 11297	100kΩ 5% 0.1W
3I98	4822 117 13606	10kΩ 5% 0.01W 0402
3I99	4822 117 13596	220Ω 5% 0.01W 0402
3J01	3198 031 01210	120Ω 5% 0.01W 0402
3J03	3198 031 06890	68Ω 5% 0402
3J04	4822 117 13546	47Ω 5% 0402
3J05	3198 031 02290	22Ω 5% 0.1W 0402
3J06	3198 031 02290	22Ω 5% 0.1W 0402
3J07	3198 031 06890	68Ω 5% 0402
3J08	3198 031 06890	68Ω 5% 0402
3J09	3198 031 06890	68Ω 5% 0402
3J10	4822 117 13548	1kΩ 5% 0402
3J11	3198 031 06890	68Ω 5% 0402
3J13	3198 031 01210	120Ω 5% 0.01W 0402
3J14	4822 117 13548	1kΩ 5% 0402
3J15	4822 117 13548	1kΩ 5% 0402
3J16	4822 117 13548	1kΩ 5% 0402
3J17	4822 117 13546	47Ω 5% 0402
3L00	4822 117 11297	100kΩ 5% 0.1W
3L01	3198 031 01090	10Ω 5% 0.01W 0402
3L02	3198 031 05630	56kΩ 5% 0402
3L03	3198 031 06830	68kΩ 5% 0.01W 0402
3L04	3198 031 03390	33Ω 1% 0402
3L05	3198 031 03390	33Ω 1% 0402
3L06	3198 031 02290	22Ω 5% 0.1W 0402
3L07	3198 031 02290	22Ω 5% 0.1W 0402
3L08	4822 117 13546	47Ω 5% 0402
3L09	4822 117 13546	47Ω 5% 0402
3L10	4822 117 13546	47Ω 5% 0402
3L11	4822 117 13546	47Ω 5% 0402
3L12	4822 117 13546	47Ω 5% 0402
3L13	4822 117 13546	47Ω 5% 0402
3L14	4822 117 13546	47Ω 5% 0402
3L15	4822 117 13546	47Ω 5% 0402
3L16	4822 117 13546	47Ω 5% 0402
3L17	4822 117 13546	47Ω 5% 0402
3L18	4822 117 13546	47Ω 5% 0402
3L19	4822 117 13546	47Ω 5% 0402
3L20	4822 117 13546	47Ω 5% 0402
3L21	4822 117 13546	47Ω 5% 0402
3L22	4822 117 13548	1kΩ 5% 0402
3L23	4822 117 13546	47Ω 5% 0402
3L24	4822 117 13548	1kΩ 5% 0402
3L25	4822 117 13546	47Ω 5% 0402
3L26	4822 117 13546	47Ω 5% 0402
3L27	4822 117 13546	47Ω 5% 0402
3L28	4822 117 13548	1kΩ 5% 0402
3L29	4822 117 13546	47Ω 5% 0402
3L30	3198 031 03390	33Ω 1% 0402
3L31	4822 117 13546	47Ω 5% 0402
3L32	4822 117 13548	1kΩ 5% 0402
3L33	4822 117 13546	47Ω 5% 0402
3L34	3198 031 03390	33Ω 1% 0402
3L36	4822 117 11297	100kΩ 5% 0.1W
3L37	4822 117 13606	10kΩ 5% 0.01W 0402
3L38	3198 031 04740	470kΩ 5% 0402
3L39	3198 031 03390	33Ω 1% 0402
3L40	4822 117 13545	100Ω 1% 0402
3L41	4822 117 13546	47Ω 5% 0402
3L42	4822 117 13546	47Ω 5% 0402
3L43	4822 117 13546	47Ω 5% 0402
3L44	4822 117 13546	47Ω 5% 0402
3L45	4822 117 13546	47Ω 5% 0402
3L46	4822 117 13546	47Ω 5% 0402
3L47	4822 117 13546	47Ω 5% 0402
3L48	4822 117 13546	47Ω 5% 0402
3L49	4822 117 13546	47Ω 5% 0402
3L50	3198 031 02290	22Ω 5% 0.1W 0402
3L51	4822 117 13545	100Ω 1% 0402
3L52	4822 117 13546	47Ω 5% 0402
3L53	4822 117 13546	47Ω 5% 0402
3L54	4822 117 13546	47Ω 5% 0402
3L55	4822 117 13546	47Ω 5% 0402
3L56	3198 031 02290	22Ω 5% 0.1W 0402
3L57	3198 031 02290	22Ω 5% 0.1W 0402
3L58	3198 031 02290	22Ω 5% 0.1W 0402
3L59	3198 031 02290	22Ω 5% 0.1W 0402
3L60	3198 031 02290	22Ω 5% 0.1W 0402
3L61	3198 031 02290	22Ω 5% 0.1W 0402
3L62	3198 031 02290	22Ω 5% 0.1W 0402
3L63	3198 031 02290	22Ω 5% 0.1W 0402
3L64	3198 031 02290	22Ω 5% 0.1W 0402
3L65	3198 031 02290	22Ω 5% 0.1W 0402
3L66	3198 031 02290	22Ω 5% 0.1W 0402
3L67	3198 031 02290	22Ω 5% 0.1W 0402
3L68	3198 031 02290	22Ω 5% 0.1W 0402
3L69	3198 031 02290	22Ω 5% 0.1W 0402
3L70	3198 031 02290	22Ω 5% 0.1W 0402
3L71	3198 031 02290	22Ω 5% 0.1W 0402
3L72	4822 117 13546	47Ω 5% 0402
3L73	4822 117 13546	47Ω 5% 0402
3L74	4822 117 13546	47Ω 5% 0402
3L75	4822 117 13546	47Ω 5% 0402
3L76	4822 117 13546	47Ω 5% 0402
3L77	4822 117 13546	47Ω 5% 0402
3L81	3198 031 03390	33Ω 1% 0402
3L82	3198 031 03390	33Ω 1% 0402
3L83	3198 031 03390	33Ω 1% 0402
3L84	3198 031 03390	33Ω 1% 0402
3L85	3198 031 03390	33Ω 1% 0402
3L86	3198 031 03390	33Ω 1% 0402
3L87	3198 031 03390	33Ω 1% 0402
3L88	3198 031 03390	33Ω 1% 0402
3L89	3198 031 02290	22Ω 5% 0.1W 0402
3L90	4822 117 13548	1kΩ 5% 0402
3L91	3198 031 03390	33Ω 1% 0402
3L92	3198 031 03390	33Ω 1% 0402
3L93	3198 031 03390	33Ω 1% 0402
3L94	3198 031 03390	33Ω 1% 0402
3L95	3198 031 03390	33Ω 1% 0402
3L96	4822 117 13545	100Ω 1% 0402
3L97	4822 117 13545	100Ω 1% 0402
3L98	4822 117 11297	100kΩ 5% 0.1W
3L98	4822 117 13606	10kΩ 5% 0.01W 0402
3L99	4822 117 13606	10kΩ 5% 0.01W 0402
3LA0	4822 117 13606	10kΩ 5% 0.01W 0402
3LA1	4822 117 13606	10kΩ 5% 0.01W 0402
3LA2	4822 117 13606	10kΩ 5% 0.01W 0402
3LA3	4822 117 13606	10kΩ 5% 0.01W 0402
3LA4	4822 117 13606	10kΩ 5% 0.01W 0402
3LA5	4822 117 13548	1kΩ 5% 0402
3LA6	4822 117 13606	10kΩ 5% 0.01W 0402
3LA7	4822 117 13606	10kΩ 5% 0.01W 0402
3LA8	4822 117 13606	10kΩ 5% 0.01W 0402
3LA9	4822 117 13606	10kΩ 5% 0.01W 0402
3LB1	4822 117 13606	10kΩ 5% 0.01W 0402
3LB2	4822 117 13606	10kΩ 5% 0.01W 0402
3LB3	4822 117 13606	10kΩ 5% 0.01W 0402
3LB4	4822 117 13606	10kΩ 5% 0.01W 0402
3LB5	4822 117 13606	10kΩ 5% 0.01W 0402
3LB7	4822 117 13606	10kΩ 5% 0.01W 0402
3LB8	4822 117 13606	10kΩ 5% 0.01W 0402
3LB9	4822 117 13606	10kΩ 5% 0.01W 0402
3LC0	4822 117 13606	10kΩ 5% 0.01W 0402
3LC1	4822 117 13606	10kΩ 5% 0.01W 0402
3LC2	4822 117 13606	10kΩ 5% 0.01W 0402
3LC3	4822 117 13606	10kΩ 5% 0.01W 0402
3LC4	4822 117 13606	10kΩ 5% 0.01W 0402
3LC5	4822 117 11297	100kΩ 5% 0.1W
3LC6	3198 031 04720	4.7kΩ 5% 0402
3LC7	3198 031 04720	4.7kΩ 5% 0402
3LC8	3198 031 06810	680Ω 5% 0.01W 0402
3LC9	4822 117 13606	10kΩ 5% 0.01W 0402
3LD0	4822 117 13606	10kΩ 5% 0.01W 0402
3LD1	4822 117 13606	10kΩ 5% 0.01W 0402
3LD3	4822 117 13606	10kΩ 5% 0.01W 0402
3LD4	4822 117 13606	10kΩ 5% 0.01W 0402
3LD5	4822 117 13606	10kΩ 5% 0.01W 0402
3LD6	4822 117 13606	10kΩ 5% 0.01W 0402
3LD7	4822 117 13606	10kΩ 5% 0.01W 0402
3LD8	4822 117 13606	10kΩ 5% 0.01W 0402
3LD9	4822 117 13606	10kΩ 5% 0.01W 0402
3LE0	4822 117 13606	10kΩ 5% 0.01W 0402
3LE1	4822 117 11373	100Ω 1% 0805
3LE2	4822 117 13545	100Ω 1% 0402
3LE3	3198 031 04720	4.7kΩ 5% 0402
3LE4	3198 031 04720	4.7kΩ 5% 0402
3LE5	4822 117 13606	10kΩ 5% 0.01W 0402
3LE6	4822 117 13606	10kΩ 5% 0.01W 0402
3LE7	4822 117 13606	10kΩ 5% 0.01W 0402
3LE8	4822 117 13606	10kΩ 5% 0.01W 0402
3LE9	4822 117 13606	10kΩ 5% 0.01W 0402
3LF0	4822 117 13545	100Ω 1% 0402
3LF1	4822 117 13545	100Ω 1% 0402
3LF2	4822 117 13545	100Ω 1% 0402
3LF3	4822 117 11297	100kΩ 5% 0.1W
3LF4	4822 117 13606	10kΩ 5% 0.01W 0402
3LF5	4822 117 13606	10kΩ 5% 0.01W 0402
3LF8	4822 117 13545	100Ω 1% 0402
3LF9	4822 117 13606	10kΩ 5% 0.01W 0402
3LG1	4822 117 13545	100Ω 1% 0402
3LG3	4822 117 13545	100Ω 1% 0402
3LG5	4822 117 13545	100Ω 1% 0402
3LG6	4822 117 13545	100Ω 1% 0402
3LG7	4822 117 13545	100Ω 1% 0402

3LG8	4822 117 13545	100Ω 1% 0402
3LG9	4822 117 13545	100Ω 1% 0402
3LH0	4822 117 13545	100Ω 1% 0402
3LH1	4822 117 13545	100Ω 1% 0402
3LH2	4822 117 11373	100Ω 1% 0805
3LH3	4822 117 13545	100Ω 1% 0402
3LH4	4822 117 13545	100Ω 1% 0402
3LH5	4822 117 13606	10kΩ 5% 0.01W 0402
3LH6	4822 117 13606	10kΩ 5% 0.01W 0402
3LH7	4822 117 11373	100Ω 1% 0805
3LH8	4822 117 13545	100Ω 1% 0402
3LH9	4822 117 13545	100Ω 1% 0402
3LJ0	4822 117 13545	100Ω 1% 0402
3LJ1	4822 117 13545	100Ω 1% 0402
3LJ2	4822 117 13606	10kΩ 5% 0.01W 0402
3LJ3	4822 117 13606	10kΩ 5% 0.01W 0402
3LJ4	4822 117 13545	100Ω 1% 0402
3LJ5	4822 117 13545	100Ω 1% 0402
3LJ6	4822 117 13545	100Ω 1% 0402
3LJ7	4822 117 13545	100Ω 1% 0402
3LJ8	4822 117 13545	100Ω 1% 0402
3LJ9	4822 117 13545	100Ω 1% 0402
3LK0	4822 117 13545	100Ω 1% 0402
3LK1	4822 117 13545	100Ω 1% 0402
3LK2	4822 117 13545	100Ω 1% 0402
3LK3	4822 117 13545	100Ω 1% 0402
3LK4	4822 117 13545	100Ω 1% 0402
3LK5	4822 117 13545	100Ω 1% 0402
3LK6	4822 117 13545	100Ω 1% 0402
3LK7	4822 117 13545	100Ω 1% 0402
3LK8	4822 117 13545	100Ω 1% 0402
3LL0	4822 117 13545	100Ω 1% 0402
3LL1	4822 117 13545	100Ω 1% 0402
3LL2	4822 117 13545	100Ω 1% 0402
3LL3	4822 117 13545	100Ω 1% 0402
3LL4	4822 117 13545	100Ω 1% 0402
3LL5	4822 117 13545	100Ω 1% 0402
3LL6	4822 117 13545	100Ω 1% 0402
3LL7	4822 117 13545	100Ω 1% 0402
3LL8	4822 117 13597	330Ω 5% 0.01W 0402
3LL9	4822 117 13596	220Ω 5% 0.01W 0402
3LM0	4822 117 11373	100Ω 1% 0805
3LM1	4822 117 11373	100Ω 1% 0805
3LM2	4822 117 11373	100Ω 1% 0805
3LM3	4822 117 11373	100Ω 1% 0805
3LM4	4822 117 11373	100Ω 1% 0805
3LM5	4822 117 11373	100Ω 1% 0805
3LM6	4822 117 11373	100Ω 1% 0805
3LM7	4822 117 11373	100Ω 1% 0805
3LN0	4822 117 11373	100Ω 1% 0805
3LN1	4822 117 11373	100Ω 1% 0805
3LN2	4822 117 11373	100Ω 1% 0805
3LN3	4822 117 11373	100Ω 1% 0805
3LN4	4822 117 11373	100Ω 1% 0805
3LN5	4822 117 11373	100Ω 1% 0805
3LN6	4822 117 11373	100Ω 1% 0805
3LN7	4822 117 11373	100Ω 1% 0805
3LQ6	4822 117 11373	100Ω 1% 0805
3LR0	3198 031 03390	33Ω 1% 0402
3LR1	3198 031 03390	33Ω 1% 0402
3LR2	4822 117 13606	10kΩ 5% 0.01W 0402
3LR3	2350 033 11339	4 x 33Ω 5%
3LR4	2350 033 11339	4 x 33Ω 5%
3LR5	2350 033 11339	4 x 33Ω 5%
3LR6	2350 033 11339	4 x 33Ω 5%
3LR7	2350 033 11339	4 x 33Ω 5%
3LR8	2350 033 11339	4 x 33Ω 5%
3LR9	2350 033 11339	4 x 33Ω 5%
3LS0	2350 033 11339	4 x 33Ω 5%
3LS1	2350 033 11339	4 x 33Ω 5%
3LS2	3198 031 06810	680Ω 5% 0.01W 0402
3LS3	4822 117 13606	10kΩ 5% 0.01W 0402
3LS4	4822 117 13606	10kΩ 5% 0.01W 0402
3LS5	4822 117 13606	10kΩ 5% 0.01W 0402
3LS6	4822 117 13606	10kΩ 5% 0.01W 0402
3LS7	4822 117 13597	330Ω 5% 0.01W 0402
3LS8	4822 117 13606	10kΩ 5% 0.01W 0402
3LS9	3198 031 05610	560Ω 5% 0.01W 0402
3LT0	4822 117 13606	10kΩ 5% 0.01W 0402
3LT1	4822 117 13606	10kΩ 5% 0.01W 0402
3LT2	4822 117 13606	10kΩ 5% 0.01W 0402
3LT3	3198 031 01090	10Ω 5% 0.01W 0402
3LT4	3198 031 04720	4.7kΩ 5% 0402
3LT5	2322 705 70184	180Ω 5% 0402
3LT6	3198 031 06830	68kΩ 5% 0.01W 0402
3LT7	4822 117 11297	100kΩ 5% 0.1W
3LT8	4822 117 13606	10kΩ 5% 0.01W 0402
3LT9	3198 031 01090	10Ω 5% 0.01W 0402
3LU0	4822 117 11297	100kΩ 5% 0.1W
3LU1	3198 031 06830	68kΩ 5% 0.01W 0402
3LU2	4822 117 13601	22kΩ 5% 0402
3LU3	4822 117 13606	10kΩ 5% 0.01W 0402
3LU4	4822 117 13606	10kΩ 5% 0.01W 0402
3LU5	4822 117 13601	22kΩ 5% 0402
3LU6	3198 031 06830	68kΩ 5% 0.01W 0402
3LU7	2322 705 70184	180Ω 5% 0402
3LU8	3198 031 01090	10Ω 5% 0.01W 0402
3LU9	3198 031 04730	47Ω 5% 0402
3LV0	3198 031 03340	330kΩ 5% 0402
3LV1	3198 031 06830	68kΩ 5% 0.01W 0402
3LV2	4822 117 13601	22kΩ 5% 0402
3LV3	4822 117 13606	10kΩ 5% 0.01W 0402
3LV4	4822 117 13606	10kΩ 5% 0.01W 0402
3LV5	4822 117 13601	22kΩ 5% 0402
3LV6	3198 031 06830	68kΩ 5% 0.01W 0402
3LV7	2322 705 87564	560kΩ 5% 0402
3LV8	3198 031 01090	10Ω 5% 0.01W 0402
3LW0	4822 117 13606	10kΩ 5% 0.01W 0402
3LW1	4822 117 13606	10kΩ 5% 0.01W 0402
3LW2	4822 117 11297	100kΩ 5% 0.1W
3LW3	4822 117 13601	22kΩ 5% 0402
3LW4	4822 117 13606	10kΩ 5% 0.01W 0402
3LW5	4822 117 13545	100Ω 1% 0402
3LW6	3198 031 05620	5.6kΩ 5% 0.01W 0402
3LW6	4822 117 13606	10kΩ 5% 0.01W 0402
3LW7	4822 117 13606	10kΩ 5% 0.01W 0402
3LW8	4822 117 13545	100Ω 1% 0402
3M00	4822 117 13545	100Ω 1% 0402
3M01	4822 117 13545	100Ω 1% 0402
3M02	4822 117 13545	100Ω 1% 0402
3M04	4822 117 13548	1kΩ 5% 0402
3M05	4822 117 13545	100Ω 1% 0402
3M06	4822 117 13545	100Ω 1% 0402
3M07	4822 117 13545	100Ω 1% 0402
3M08	4822 117 13545	100Ω 1% 0402
3M0D	4822 117 13548	1kΩ 5% 0402
3M0I	4822 117 13545	100Ω 1% 0402
3M0J	4822 117 13545	100Ω 1% 0402
3M0S	4822 117 13605	Jumper 0402
3M0V	4822 117 13545	100Ω 1% 0402
3M40	3198 031 08230	82kΩ 5% 0402
3M41	4822 117 13548	1kΩ 5% 0402
3M42	4822 117 13545	100Ω 1% 0402
3M43	4822 117 13545	100Ω 1% 0402
3M48	3198 031 03390	33Ω 1% 0402
3M49	3198 031 04730	47Ω 5% 0402
3M4A	4822 117 13597	330Ω 5% 0.01W 0402
3M4B	4822 117 13606	10kΩ 5% 0.01W 0402
3M4C	4822 117 13597	330Ω 5% 0.01W 0402
3M4D	3198 031 08220	8.2kΩ 5% 0.5W
3M4E	3198 031 01820	1.8kΩ 5% 0.01W 0402
3M60	4822 117 13545	100Ω 1% 0402
3M61	4822 117 13545	100Ω 1% 0402
3M62	4822 117 13545	100Ω 1% 0402
3M63	4822 117 13545	100Ω 1% 0402
3M66	3198 031 01090	10Ω 5% 0.01W 0402
3M80	4822 117 13602	2.2kΩ 5% 0.01W 0402
3M81	4822 117 13606	10kΩ 5% 0.01W 0402
3M82	3198 031 01220	1.2kΩ 5% 0.01W 0402
3M83	4822 117 13606	10kΩ 5% 0.01W 0402
3M84	4822 117 13548	1kΩ 5% 0402
3M85	4822 117 10353	150Ω 1% 0.1W
3M86	4822 117 10353	150Ω 1% 0.1W
3M87	4822 117 13548	1kΩ 5% 0402
3M88	4822 117 10353	150Ω 1% 0.1W
3M89	4822 117 10353	150Ω 1% 0.1W
3M8A	4822 117 13548	1kΩ 5% 0402
3M8B	3198 031 01520	1.2kΩ 5% 0.01W 0402
3M8C	4822 117 13548	1kΩ 5% 0402
3M8D	4822 117 10353	150Ω 1% 0.1W
3M8E	4822 117 13606	10kΩ 5% 0.01W 0402
3M8F	4822 117 13606	10kΩ 5% 0.01W 0402
3M8G	4822 117 13606	10kΩ 5% 0.01W 0402
3M8H	4822 117 13603	33kΩ 5% 0402
3M8I	3198 031 01830	18kΩ 5% 0.01W 0402
3M8J	4822 117 13548	1kΩ 5% 0402
3M8R	4822 117 10353	150Ω 1% 0.1W
3M8S	4822 117 10353	150Ω 1% 0.1W
3M8T	4822 117 10353	150Ω 1% 0.1W
3M8U	4822 051 20478	4.7Ω 5% 0.1W
3M8V	4822 051 20478	4.7Ω 5% 0.1W
3N05	3198 031 01510	150Ω 5% 0.01W 0402
3N06	3198 031 04720	4.7kΩ 5% 0402
3N07	3198 031 04720	4.7kΩ 5% 0402
3N08	5322 117 13028	12kΩ 1% 0.063W 0603
3N09	4822 117 13545	100Ω 1% 0402
3N12	3198 031 01530	15kΩ 5% 0.01W 0402
3N13	3198 031 01530	15kΩ 5% 0.01W 0402
3N14	3198 031 01530	15kΩ 5% 0.01W 0402
3N15	3198 031 01530	15kΩ 5% 0.01W 0402
3N18	3198 031 04720	4.7kΩ 5% 0402
3N19	3198 031 04720	4.7kΩ 5% 0402
3N21	4822 117 13606	10kΩ 5% 0.01W 0402
3N25	3198 031 04720	4.7kΩ 5% 0402
3N90	3198 031 04720	4.7kΩ 5% 0402
3N92	3198 031 04720	4.7kΩ 5% 0402
3O00	3198 031 01050	1MΩ 5% 0402
3O01	4822 117 13543	470Ω 5% 0402
3O02	4822 117 13545	100Ω 1% 0402
3O03	4822 117 13606	10kΩ 5% 0.01W 0402
3O04	4822 117 13548	1kΩ 5% 0402
3O05	3198 031 02710	270Ω 5% 0.1W 0402
3O06	4822 117 13596	220Ω 5% 0.01W 0402
3O07	4822 117 13606	10kΩ 5% 0.01W 0402
3O08	4822 117 13606	10kΩ 5% 0.01W 0402
3O09	4822 117 13596	220Ω 5% 0.01W 0402
3O10	3198 031 02710	270Ω 5% 0.1W 0402
3O11	2120 550 00054	VDR 90V 1mA 0402
3O12	2120 550 00054	VDR 90V 1mA 0402
3O13	2120 550 00054	VDR 90V 1mA 0402
3O14	2120 550 00054	VDR 90V 1mA 0402
3O21	2322 705 70279	27Ω 5% 0402
3O22	2322 705 70279	27Ω 5% 0402
3O23	2322 705 70279	27Ω 5% 0402
3O24	2322 705 70279	27Ω 5% 0402
3O25	4822 117 13545	100Ω 1% 0402
3O26	4822 117 13545	100Ω 1% 0402
3O27	4822 117 13545	100Ω 1% 0402
3O28	4822 117 13545	100Ω 1% 0402
3P01	3198 031 04720	4.7kΩ 5% 0402
3P02	4822 117 13545	100Ω 1% 0402
3P03	4822 117 13606	10kΩ 5% 0.01W 0402
3P04	4822 117 13548	1kΩ 5% 0402
3P05	4822 117 13606	10kΩ 5% 0.01W 0402
3P10	4822 117 13606	10kΩ 5% 0.01W 0402
3P11	4822 117 13606	10kΩ 5% 0.01W 0402
3P12	4822 117 13545	100Ω 1% 0402
3P13	4822 117 13545	100Ω 1% 0402
3P14	4822 117 13545	100Ω 1% 0402
3P15	4822 117 13606	10kΩ 5% 0.01W 0402
3P16	4822 117 13606	10kΩ 5% 0.01W 0402
3P17	4822 117 13606	10kΩ 5% 0.01W 0402
3P18	4822 117 13606	10kΩ 5% 0.01W 0402
3P19	4822 117 13606	10kΩ 5% 0.01W 0402
3P20	4822 117 13606	10kΩ 5% 0.01W 0402
3P21	4822 117 13606	10kΩ 5% 0.01W 0402
3P22	4822 117 13606	10kΩ 5% 0.01W 0402
3P23	4822 117 13606	10kΩ 5% 0.01W 0402
3P24	4822 117 13606	10kΩ 5% 0.01W 0402
3P25	4822 117 13606	10kΩ 5% 0.01W 0402
3P26	4822 117 13606	10kΩ 5% 0.01W 0402
3P27	4822 117 13606	10kΩ 5% 0.01W 0402
3P28	4822 117 13606	10kΩ 5% 0.01W 0402
3P29	4822 117 13606	10kΩ 5% 0.01W 0402
3P30	4822 117 13606	10kΩ 5% 0.01W 0402
3P31	4822 117 13606	10kΩ 5% 0.01W 0402
3P32	4822 117 13606	10kΩ 5% 0.01W 0402
3P33	4822 117 11297	100kΩ 5% 0.1W
3P35	3198 031 02290	22Ω 5% 0.1W 0402
3P40	4822 117 13596	220Ω 5% 0.01W 0402
3P43	4822 117 13606	10kΩ 5% 0.01W 0402
3P45	4822 117 13606	10kΩ 5% 0.01W 0402
3P57	4822 117 13606	10kΩ 5% 0.01W 0402
3P60	2350 033 11479	4x 47Ω 5%
3P61	2350 033 11479	4x 47Ω 5%
3P62	2350 033 11479	4x 47Ω 5%
3P63	2350 033 11479	4x 47Ω 5%
3P73	3198 031 01810	180Ω 5% 0402
3P75	3198 031 04730	47Ω 5% 0402
3P76	4822 117 13548	1kΩ 5% 0402
3P77	4822 117 13548	1kΩ 5% 0402
3P78	4822 117 13606	10kΩ 5% 0.01W 0402
3P79	3198 031 02710	270Ω 5% 0.1W 0402
3P80	4822 117 13606	10kΩ 5% 0.01W 0402
3P81	4822 117 13602	2.2kΩ 5% 0.01W 0402
3P82	4822 117 13606	10kΩ 5% 0.01W 0402
3P83	4822 117 13545	100Ω 1% 0402
3P84	4822 117 13545	100Ω 1% 0402
3P85	4822 117 13545	100Ω 1% 0402
3P86	4822 117 13545	100Ω 1% 0402
3P88	4822 117 13606	10kΩ 5% 0.01W 0402
3Q00	4822 117 13546	47Ω 5% 0402
3Q01	3198 031 01210	120Ω 5% 0.01W 0402
3Q02	2350 033 11689	4x 68Ω 5% Netw.
3Q03	3198 031 04720	4.7kΩ 5% 0402
3Q04	3198 031 04720	4.7kΩ 5% 0402
3Q05	2350 033 11689	4x 68Ω 5% Netw.
3Q06	2322 705 70399	39Ω 5% 0402
3Q07	2350 033 11689	4x 68Ω 5% Netw.
3Q08	2350 033 11689	4x 68Ω 5% Netw.
3Q09	3198 031 03390	33Ω 1% 0402
3Q10	4822 117 13545	100Ω 1% 0402
3Q11	4822 117 13545	100Ω 1% 0402
3Q12	4822 117 13545	100Ω 1% 0402
3Q13	4822 117 13545	100Ω 1% 0402
3Q14	4822 117 13545	100Ω 1% 0402
3Q15	4822 117 13545	100Ω 1% 0402
3Q16	3198 031 01530	15kΩ 5% 0.01W 0402
3Q17	3198 031 01530	15kΩ 5% 0.01W 0402
3Q18	3198 031 01530	15kΩ 5% 0.01W 0402
3Q20	4822 117 13546	47Ω 5% 0402
3Q21	4822 117 13606	10kΩ 5% 0.01W 0402

3Q23	3198 031 01530	15kΩ 5% 0.01W 0402
3Q25	2350 033 11689	4x 68Ω 5% Netw.
3Q26	2350 033 11689	4x 68Ω 5% Netw.
3Q27	3198 031 04720	4.7kΩ 5% 0402
3Q28	2350 033 11689	4x 68Ω 5% Netw.
3Q33	4822 117 13546	47Ω 5% 0402
3Q34	2350 033 11689	4x 68Ω 5% Netw.
3Q35	4822 117 13546	47Ω 5% 0402
3Q37	4822 117 13546	47Ω 5% 0402
3Q38	2350 033 11689	4x 68Ω 5% Netw.
3Q39	4822 117 13546	47Ω 5% 0402
3Q41	4822 117 13546	47Ω 5% 0402
3Q43	4822 117 13546	47Ω 5% 0402
3Q45	4822 117 13546	47Ω 5% 0402
3Q47	4822 117 13546	47Ω 5% 0402
3Q49	4822 117 13546	47Ω 5% 0402
3Q51	4822 117 13546	47Ω 5% 0402
3Q53	4822 117 13546	47Ω 5% 0402
3Q55	4822 117 13546	47Ω 5% 0402
3Q57	4822 117 13546	47Ω 5% 0402
3Q59	4822 117 13546	47Ω 5% 0402
3Q61	4822 117 13546	47Ω 5% 0402
3Q63	4822 117 13546	47Ω 5% 0402
3Q66	4822 117 13546	47Ω 5% 0402
3Q67	4822 117 13546	47Ω 5% 0402
3Q68	4822 117 13546	47Ω 5% 0402
3R00	4822 117 13548	1kΩ 5% 0402
3R01	4822 117 13548	1kΩ 5% 0402
3R02	4822 117 13546	47Ω 5% 0402
3R03	4822 117 13546	47Ω 5% 0402
3R04	4822 117 13546	47Ω 5% 0402
3R05	4822 117 13546	47Ω 5% 0402
3R06	4822 117 13546	47Ω 5% 0402
3R07	4822 117 13546	47Ω 5% 0402
3R08	4822 117 13546	47Ω 5% 0402
3R09	4822 117 13546	47Ω 5% 0402
3R10	4822 117 13546	47Ω 5% 0402
3R11	4822 117 13546	47Ω 5% 0402
3R12	4822 117 13546	47Ω 5% 0402
3R13	4822 117 13546	47Ω 5% 0402
3R14	4822 117 13546	47Ω 5% 0402
3R15	4822 117 13546	47Ω 5% 0402
3R16	4822 117 13546	47Ω 5% 0402
3R17	4822 117 13546	47Ω 5% 0402
3R19	4822 117 13546	47Ω 5% 0402
3R22	4822 117 13546	47Ω 5% 0402
3R39	4822 117 13545	100Ω 1% 0402
3R41	4822 117 13596	220Ω 5% 0.01W 0402
3R42	4822 117 13545	100Ω 1% 0402
3R44	4822 117 13606	10kΩ 5% 0.01W 0402
3R46	4822 117 13606	10kΩ 5% 0.01W 0402
3R47	4822 117 13606	10kΩ 5% 0.01W 0402
3R48	3198 031 04720	4.7kΩ 5% 0402
3R58	2350 033 11229	4x 22Ω 5% Netw.
3R60	2350 033 11229	4x 22Ω 5% Netw.
3R62	2350 033 11229	4x 22Ω 5% Netw.
3R64	2350 033 11229	4x 22Ω 5% Netw.
3R66	4822 117 13545	100Ω 1% 0402
3R67	2322 706 71002	1kΩ 1% 0402
3R68	2322 706 71002	1kΩ 1% 0402
3R70	3198 031 02290	22Ω 5% 0.1W 0402
3R71	4822 117 13546	47Ω 5% 0402
3R72	4822 117 13546	47Ω 5% 0402
3R73	3198 031 02290	22Ω 5% 0.1W 0402
3R74	3198 031 02290	22Ω 5% 0.1W 0402
3R75	4822 117 13548	1kΩ 5% 0402
3R77	4822 117 13546	47Ω 5% 0402
3R78	2350 033 11229	4x 22Ω 5% Netw.
3R90	3198 031 02720	2.7kΩ 5% 0.01W 0402
3R91	2322 706 71002	1kΩ 1% 0402
3R92	4822 117 13548	1kΩ 5% 0402
3R93	3198 031 02720	2.7kΩ 5% 0.01W 0402
3R94	4822 117 13548	1kΩ 5% 0402
3R95	4822 117 13545	100Ω 1% 0402
3T04	4822 117 13545	100Ω 1% 0402
3T06	4822 117 13545	100Ω 1% 0402
3T07	4822 117 13545	100Ω 1% 0402
3T09	4822 117 13545	100Ω 1% 0402
3T16	4822 117 13545	100Ω 1% 0402
3T20	4822 117 13602	2.2kΩ 5% 0.01W 0402
3T21	3198 031 02720	2.7kΩ 5% 0.01W 0402
3T22	3198 031 03390	33Ω 1% 0402
3T23	3198 031 02710	270Ω 5% 0.1W 0402
3T24	3198 031 03390	33Ω 1% 0402
3T25	4822 117 13603	33kΩ 5% 0402
3T27	4822 117 13606	10kΩ 5% 0.01W 0402
3T28	4822 117 13602	2.2kΩ 5% 0.01W 0402
3T29	4822 117 13601	22kΩ 5% 0402
3T68	3198 031 04720	4.7kΩ 5% 0402
3T69	3198 031 04720	4.7kΩ 5% 0402
3U00	4822 117 11297	100kΩ 5% 0.1W
3U01	4822 117 13601	22kΩ 5% 0402
3U02	4822 117 13601	22kΩ 5% 0402
3U03	3198 031 04730	47Ω 5% 0402

3U04⚠	5322 117 11726	10Ω 5%
3U05	4822 117 13548	1kΩ 5% 0402
3U06	3198 031 02720	2.7kΩ 5% 0.01W 0402
3U07	2322 706 73901	390Ω 1% 0402
3U08	3198 031 04720	4.7kΩ 5% 0402
3U09	2322 706 71002	1kΩ 1% 0402
3U0A	4822 117 11297	100kΩ 5% 0.1W
3U0B	4822 117 13603	33kΩ 5% 0402
3U0C	4822 117 13603	33kΩ 5% 0402
3U0D	3198 031 04730	47Ω 5% 0402
3U0E⚠	5322 117 11726	10Ω 5%
3U0F	4822 117 13548	1kΩ 5% 0402
3U0G	3198 031 02720	2.7kΩ 5% 0.01W 0402
3U0H	2322 706 75601	560Ω 1% 0402
3U0J	2322 706 71002	1kΩ 1% 0402
3U0K	4822 117 11297	100kΩ 5% 0.1W
3U0L	4822 117 13603	33kΩ 5% 0402
3U0M	4822 117 13603	33kΩ 5% 0402
3U0N	3198 031 04730	47Ω 5% 0402
3U0P⚠	5322 117 11726	10Ω 5%
3U0Q	4822 117 13548	1kΩ 5% 0402
3U0R	3198 031 02720	2.7kΩ 5% 0.01W 0402
3U0S	2322 706 72702	2.7kΩ 1% 0402
3U0T	4822 117 13603	33kΩ 5% 0402
3U0U	2322 706 71002	1kΩ 1% 0402
3U0Z	3198 031 06820	6.8kΩ 5% 0.01W 0402
3U10	4822 117 13548	1kΩ 5% 0402
3U11	3198 031 06820	6.8kΩ 5% 0.01W 0402
3U12	4822 117 13548	1kΩ 5% 0402
3U13	3198 031 06820	6.8kΩ 5% 0.01W 0402
3U14	4822 117 13548	1kΩ 5% 0402
3U15	4822 117 13545	100Ω 1% 0402
3U17	4822 051 30109	10Ω 5% 0.062W
3U18	4822 117 13613	2.2Ω 5% 0603
3U19	4822 051 30109	10Ω 5% 0.062W
3U1A	4822 117 13613	2.2Ω 5% 0603
3U1B	4822 051 30109	10Ω 5% 0.062W
3U1C	4822 117 13613	2.2Ω 5% 0603
3U1F	4822 051 30109	10Ω 5% 0.062W
3U1G	4822 051 30109	10Ω 5% 0.062W
3U1H	4822 051 30109	10Ω 5% 0.062W
3U1I	4822 117 13606	10kΩ 5% 0.01W 0402
3U1J	4822 117 13606	10kΩ 5% 0.01W 0402
3U1K	4822 117 13606	10kΩ 5% 0.01W 0402
3U1L	4822 117 13606	10kΩ 5% 0.01W 0402
3U1M	4822 117 13545	100Ω 1% 0402
3U1N	3198 031 03390	33Ω 1% 0402
3U1P	4822 117 13606	10kΩ 5% 0.01W 0402
3U1Q	3198 031 01510	150Ω 5% 0.01W 0402
3U1R	4822 117 13596	220Ω 5% 0.01W 0402
3U1S	4822 117 13606	10kΩ 5% 0.01W 0402
3U1T	3198 031 01210	120Ω 5% 0.01W 0402
3U1U	4822 117 13596	220Ω 5% 0.01W 0402
3U1V	4822 117 13606	10kΩ 5% 0.01W 0402
3U20	4822 117 13601	22kΩ 5% 0402
3U21	4822 117 13601	22kΩ 5% 0402
3U22	2322 706 76809	68Ω 1% 0402 RC32
3U25	3198 021 34780	4.7Ω 5% 0603
3U26	3198 021 34780	4.7Ω 5% 0603
3U27	3198 021 34780	4.7Ω 5% 0603
3U2B	4822 117 13606	10kΩ 5% 0.01W 0402
3U2C	3198 031 01510	150Ω 5% 0.01W 0402
3U2D	4822 117 13545	100Ω 1% 0402
3U2E	4822 117 13545	100Ω 1% 0402
3U2F	4822 117 13545	100Ω 1% 0402
3U2G	4822 117 13548	1kΩ 5% 0402
3U2H	4822 117 13548	1kΩ 5% 0402
3U2J	4822 117 13601	22kΩ 5% 0402
3U2K	4822 117 11297	100kΩ 5% 0.1W
3U2L	4822 117 13606	10kΩ 5% 0.01W 0402
3U2M	4822 117 13543	470Ω 5% 0402
3U2N	4822 117 13601	22kΩ 5% 0402
3U2P	4822 117 13601	22kΩ 5% 0402
3U35	2322 705 70688	6.8Ω 5% 0402 RC31
3U37	2322 706 73301	330Ω 1% 0402
3U39	2322 705 70688	6.8Ω 5% 0402 RC31
3U48	4822 117 13545	100Ω 1% 0402
3U4B	4822 117 13606	10kΩ 5% 0.01W 0402
3U4C	4822 051 30339	33Ω 5% 0.062W
3U4D	4822 117 13545	100Ω 1% 0402
3U4E	4822 117 13602	2.2kΩ 5% 0.01W 0402
3U4F	4822 117 11297	100kΩ 5% 0.1W
3U60	4822 117 11297	100kΩ 5% 0.1W
3U62	3198 031 04730	47Ω 5% 0402
3U63	3198 031 04730	47Ω 5% 0402
3U64⚠	5322 117 11726	10Ω 5%
3U65	4822 117 13548	1kΩ 5% 0402
3U66	3198 031 02720	2.7kΩ 5% 0.01W 0402
3U68	2322 706 71002	1kΩ 1% 0402
3U69	3198 031 06820	6.8kΩ 5% 0.01W 0402
3U6A	4822 117 13548	1kΩ 5% 0402
3U6B	4822 051 30109	10Ω 5% 0.062W
3U6C	4822 117 13613	2.2Ω 5% 0603
3U6D	4822 051 30109	10Ω 5% 0.062W

3U6E	4822 117 13606	10kΩ 5% 0.01W 0402
3U6F	4822 117 13606	10kΩ 5% 0.01W 0402
3U6G	4822 117 13606	10kΩ 5% 0.01W 0402
3U6H	4822 117 13606	10kΩ 5% 0.01W 0402
3U6I	4822 117 13548	1kΩ 5% 0402
3U6J	4822 117 13597	330Ω 5% 0.01W 0402
3U6K	4822 117 13606	10kΩ 5% 0.01W 0402
3U6L	4822 117 13545	100Ω 1% 0402
3U6N	4822 117 13548	1kΩ 5% 0402
3U6Y	3198 021 34780	4.7Ω 5% 0603
3V00	2350 033 11229	4x 22Ω 5% Netw.
3V01	2350 033 11229	4x 22Ω 5% Netw.
3V13	2350 033 11229	4x 22Ω 5% Netw.
3V15	2350 033 11229	4x 22Ω 5% Netw.
3V16	2350 033 11229	4x 22Ω 5% Netw.
3V17	2350 033 11229	4x 22Ω 5% Netw.
3V18	2350 033 11229	4x 22Ω 5% Netw.
3V19	2350 033 11229	4x 22Ω 5% Netw.
3V24	2322 706 75601	560Ω 1% 0402
3V25	2322 706 75601	560Ω 1% 0402
3V40	3198 031 02290	22Ω 5% 0.1W 0402
3V41	3198 031 02290	22Ω 5% 0.1W 0402
3V42	3198 031 02290	22Ω 5% 0.1W 0402
3V43	3198 031 02290	22Ω 5% 0.1W 0402
3V45	2322 706 75601	560Ω 1% 0402
3V45	2322 706 76801	680Ω 1% 0402
3V46	2322 706 73301	330Ω 1% 0402
3V46	2322 706 75601	560Ω 1% 0402
3V47	4822 117 13596	220Ω 5% 0.01W 0402
3V48	4822 117 13596	220Ω 5% 0.01W 0402
3V78	4822 117 13548	1kΩ 5% 0402
3W07	4822 117 13545	100Ω 1% 0402
3W09	4822 117 13545	100Ω 1% 0402
3W16	4822 117 13601	22kΩ 5% 0402
3W18	4822 117 13602	2.2kΩ 5% 0.01W 0402
3W19	3198 031 03390	33Ω 1% 0402
3W20	3198 031 03390	33Ω 1% 0402
3W21	3198 031 02720	2.7kΩ 5% 0.01W 0402
3W22	3198 031 02710	270Ω 5% 0.1W 0402
3W23	4822 117 13548	1kΩ 5% 0402
3W30	4822 117 13606	10kΩ 5% 0.01W 0402
3W31	4822 117 13606	10kΩ 5% 0.01W 0402
3W33	4822 117 13548	1kΩ 5% 0402
3W34	4822 117 11297	100kΩ 5% 0.1W
3W52	3198 031 04730	47Ω 5% 0402
3W68	3198 031 04720	4.7kΩ 5% 0402
3W69	3198 031 04720	4.7kΩ 5% 0402
3W70	3198 031 02240	220kΩ 5% 0.1W 0402
3W71	4822 117 13602	2.2kΩ 5% 0.01W 0402
3W73	4822 117 13601	22kΩ 5% 0402
3W74	4822 117 13548	1kΩ 5% 0402
3W75	4822 117 13601	22kΩ 5% 0402
3W76	3198 031 05610	560Ω 5% 0.01W 0402
3W78	4822 117 13548	1kΩ 5% 0402
3W79	4822 117 13603	33kΩ 5% 0402
3W80	4822 117 13597	330Ω 5% 0.01W 0402
3W81	4822 117 13606	10kΩ 5% 0.01W 0402
3W82	2350 033 11689	4x 68Ω 5% Netw.
3W86	2350 033 11689	4x 68Ω 5% Netw.
3W90	4822 117 13545	100Ω 1% 0402
3W91	2350 033 11689	4x 68Ω 5% Netw.
3W92	4822 117 13545	100Ω 1% 0402
3Z50	4822 117 13545	100Ω 1% 0402
3Z51	4822 117 13545	100Ω 1% 0402
9A10	4822 117 13605	Jumper 0402
9A11	4822 117 13605	Jumper 0402
9A12	4822 117 13605	Jumper 0402
9A13	4822 117 13605	Jumper 0402
9A14	4822 117 13605	Jumper 0402
9A15	4822 117 13605	Jumper 0402
9A23	4822 117 13605	Jumper 0402
9A51	4822 117 13605	Jumper 0402
9A53	4822 117 13605	Jumper 0402
9A57	4822 117 13605	Jumper 0402
9B11	4822 117 13605	Jumper 0402
9B13	4822 117 13605	Jumper 0402
9B14	4822 117 13605	Jumper 0402
9B16	4822 117 13605	Jumper 0402
9B19	4822 117 13605	Jumper 0402
9B20	4822 117 13605	Jumper 0402
9B21	4822 117 13605	Jumper 0402
9B22	3198 031 01210	120Ω 5% 0.01W 0402
9B22	4822 117 13605	Jumper 0402
9B23	2020 552 00217	270pF 5% 50V 0402
9B30	3198 031 01510	150Ω 5% 0.01W 0402
9B30	4822 117 13605	Jumper 0402
9C03	4822 051 20008	Jumper 0805
9C08	4822 117 13605	Jumper 0402
9C51	4822 117 13605	Jumper 0402
9C53	4822 117 13605	Jumper 0402
9C57	4822 117 13605	Jumper 0402
9F11	4822 117 13605	Jumper 0402
9F13	4822 117 13605	Jumper 0402
9F16	4822 117 13605	Jumper 0402

9F2F	4822 117 13605	Jumper 0402
9F2G	4822 117 13605	Jumper 0402
9F2H	4822 117 13605	Jumper 0402
9F2K	4822 117 13605	Jumper 0402
9F40	4822 117 13605	Jumper 0402
9F41	4822 117 13546	47Ω 5% 0402
9F42	4822 117 13605	Jumper 0402
9F44	4822 117 13548	1kΩ 5% 0402
9F45	4822 117 13548	1kΩ 5% 0402
9F46	4822 117 13548	1kΩ 5% 0402
9F47	4822 117 13548	1kΩ 5% 0402
9F51	4822 117 13605	Jumper 0402
9H03	4822 117 13605	Jumper 0402
9H05	4822 117 13605	Jumper 0402
9H06	4822 117 13605	Jumper 0402
9H07	4822 117 13605	Jumper 0402
9H08	4822 117 13605	Jumper 0402
9H09	4822 117 13605	Jumper 0402
9H13	4822 117 13605	Jumper 0402
9H14	4822 117 13605	Jumper 0402
9H15	4822 117 13605	Jumper 0402
9H16	4822 117 13605	Jumper 0402
9H18	4822 117 13605	Jumper 0402
9H19	4822 117 13605	Jumper 0402
9H21	4822 117 13605	Jumper 0402
9H26	4822 117 13605	Jumper 0402
9H27	4822 117 13605	Jumper 0402
9H29	4822 117 13605	Jumper 0402
9H30	4822 117 13605	Jumper 0402
9H32	4822 117 13605	Jumper 0402
9H33	4822 117 13605	Jumper 0402
9H34	4822 117 13605	Jumper 0402
9H35	4822 117 13605	Jumper 0402
9H36	4822 117 13605	Jumper 0402
9I01	4822 117 13605	Jumper 0402
9I31	4822 117 13605	Jumper 0402
9I32	4822 117 13605	Jumper 0402
9I33	4822 117 13605	Jumper 0402
9I51	4822 117 13605	Jumper 0402
9I52	4822 117 13605	Jumper 0402
9I53	4822 117 13605	Jumper 0402
9J20	4822 117 13605	Jumper 0402
9J21	4822 117 13605	Jumper 0402
9J22	4822 117 13605	Jumper 0402
9J24	4822 117 13605	Jumper 0402
9K01	4822 117 13605	Jumper 0402
9L04	4822 117 13605	Jumper 0402
9L07	4822 117 13605	Jumper 0402
9L08	4822 117 13605	Jumper 0402
9L09	4822 117 13605	Jumper 0402
9L10	4822 117 13605	Jumper 0402
9LA0	4822 117 13605	Jumper 0402
9LA1	4822 117 13605	Jumper 0402
9LC7	4822 117 13605	Jumper 0402
9M00	4822 117 13605	Jumper 0402
9M01	4822 117 13605	Jumper 0402
9M02	4822 117 13605	Jumper 0402
9M03	4822 117 13605	Jumper 0402
9M04	4822 117 13605	Jumper 0402
9M05	4822 117 13605	Jumper 0402
9M06	4822 051 30008	Jumper 0603
9M07	4822 051 30008	Jumper 0603
9M08	4822 051 30008	Jumper 0603
9M09	4822 051 30008	Jumper 0603
9M0A	4822 051 30008	Jumper 0603
9M0B	4822 051 30008	Jumper 0603
9M0L	4822 117 13605	Jumper 0402
9M48	4822 117 13605	Jumper 0402
9M4L	4822 117 13605	Jumper 0402
9M4M	4822 117 13605	Jumper 0402
9M4N	4822 117 13605	Jumper 0402
9M4P	4822 117 13605	Jumper 0402
9M4Q	4822 117 13605	Jumper 0402
9M4R	4822 117 13605	Jumper 0402
9M4S	4822 117 13605	Jumper 0402
9M4T	4822 117 13605	Jumper 0402
9M4U	4822 117 13605	Jumper 0402
9M4V	4822 117 13605	Jumper 0402
9M4W	4822 117 13605	Jumper 0402
9M4Y	4822 117 13605	Jumper 0402
9M4Z	4822 117 13605	Jumper 0402
9M50	4822 117 13605	Jumper 0402
9M53	4822 117 13605	Jumper 0402
9M54	4822 051 20008	Jumper 0805
9M55	4822 051 20008	Jumper 0805
9M58	4822 117 13605	Jumper 0402
9M59	4822 117 13605	Jumper 0402
9M5A	4822 117 13605	Jumper 0402
9M5B	4822 117 13605	Jumper 0402
9M5C	4822 117 13605	Jumper 0402
9M5D	4822 117 13605	Jumper 0402
9M5E	4822 117 13605	Jumper 0402
9M5F	4822 117 13605	Jumper 0402
9M5G	4822 117 13605	Jumper 0402
9M82	2350 033 91001	4 x Jumper
9M83	2350 033 91001	4 x Jumper
9M86	2350 033 91001	4 x Jumper
9M88	2350 033 91001	4 x Jumper
9M89	2350 033 91001	4 x Jumper
9M8B	4822 117 13605	Jumper 0402
9M8C	4822 117 13605	Jumper 0402
9M8D	4822 117 13605	Jumper 0402
9M8G	4822 051 20008	Jumper 0805
9M8H	4822 051 20008	Jumper 0805
9M8I	4822 117 13605	Jumper 0402
9M8J	4822 117 13605	Jumper 0402
9N03	4822 117 13605	Jumper 0402
9N04	4822 117 13605	Jumper 0402
9N05	4822 117 13605	Jumper 0402
9N08	4822 117 13605	Jumper 0402
9N09	4822 117 13605	Jumper 0402
9N12	4822 117 13605	Jumper 0402
9N14	4822 117 13605	Jumper 0402
9O16	4822 117 13605	Jumper 0402
9P01	4822 117 13605	Jumper 0402
9P02	4822 117 13605	Jumper 0402
9P05	4822 117 13605	Jumper 0402
9P06	4822 117 13605	Jumper 0402
9P07	4822 117 13605	Jumper 0402
9P08	4822 117 13605	Jumper 0402
9P09	4822 117 13605	Jumper 0402
9P11	4822 117 13605	Jumper 0402
9P22	4822 117 13605	Jumper 0402
9P23	4822 117 13605	Jumper 0402
9P24	4822 117 13605	Jumper 0402
9P25	4822 117 13605	Jumper 0402
9P26	4822 117 13605	Jumper 0402
9P27	4822 117 13605	Jumper 0402
9P28	4822 117 13605	Jumper 0402
9P30	4822 117 13605	Jumper 0402
9P31	4822 117 13605	Jumper 0402
9P32	4822 117 13605	Jumper 0402
9P34	4822 117 13605	Jumper 0402
9P36	4822 117 13605	Jumper 0402
9P37	4822 117 13605	Jumper 0402
9P38	4822 117 13605	Jumper 0402
9P41	4822 117 13605	Jumper 0402
9P79	4822 117 13605	Jumper 0402
9R02	4822 117 13605	Jumper 0402
9R06	4822 117 13605	Jumper 0402
9T05	4822 117 13605	Jumper 0402
9T06	4822 117 13605	Jumper 0402
9T07	4822 117 13605	Jumper 0402
9T08	4822 117 13605	Jumper 0402
9T23	4822 117 13605	Jumper 0402
9T24	4822 117 13605	Jumper 0402
9T25	4822 117 13605	Jumper 0402
9T40	4822 117 13605	Jumper 0402
9T44	4822 117 13605	Jumper 0402
9T73	4822 117 13605	Jumper 0402
9U01	4822 117 13605	Jumper 0402
9U02	4822 117 13605	Jumper 0402
9U03	4822 117 13605	Jumper 0402
9U09	4822 117 13548	1kΩ 5% 0402
9U10	4822 051 20008	Jumper 0805
9U11	4822 051 20008	Jumper 0805
9U12	4822 051 20008	Jumper 0805
9U40	4822 051 20008	Jumper 0805
9U41	4822 051 20008	Jumper 0805
9U60	4822 117 13605	Jumper 0402
9W03	4822 117 13605	Jumper 0402
9W05	4822 117 13605	Jumper 0402
9W08	4822 117 13605	Jumper 0402
9W12	4822 117 13605	Jumper 0402
9W14	4822 117 13605	Jumper 0402
9W15	4822 117 13605	Jumper 0402
9W16	4822 117 13605	Jumper 0402
9W17	4822 117 13605	Jumper 0402
9W18	4822 117 13605	Jumper 0402
9W19	4822 117 13605	Jumper 0402
9W23	4822 117 13605	Jumper 0402
9W24	4822 117 13605	Jumper 0402
9W33	4822 117 13605	Jumper 0402
9W34	4822 117 13605	Jumper 0402
9W36	4822 117 13605	Jumper 0402
9W37	4822 117 13605	Jumper 0402
9W39	4822 117 13605	Jumper 0402
9W40	4822 117 13605	Jumper 0402
9W41	4822 117 13605	Jumper 0402
9Y04	4822 117 13605	Jumper 0402
9Y05	4822 117 13605	Jumper 0402
9Y06	4822 117 13605	Jumper 0402
9Y07	4822 117 13605	Jumper 0402

5A01	2422 549 45843	Bead 30Ω at 100MHz
5A02	2422 549 45843	Bead 30Ω at 100MHz
5A03	2422 549 45843	Bead 30Ω at 100MHz
5A33	2422 549 45843	Bead 30Ω at 100MHz
5A34	2422 549 45843	Bead 30Ω at 100MHz
5A36	2422 549 45843	Bead 30Ω at 100MHz
5A52	2422 549 45843	Bead 30Ω at 100MHz
5A53	2422 549 45843	Bead 30Ω at 100MHz
5A54	2422 549 45843	Bead 30Ω at 100MHz
5A56	2422 549 45843	Bead 30Ω at 100MHz
5A59	2422 549 45843	Bead 30Ω at 100MHz
5B00	4822 157 11716	Bead 30Ω at 100MHz
5B01	4822 157 11716	Bead 30Ω at 100MHz
5B04	3198 018 51080	1μH 10% 0603
5B05	3198 018 51080	1μH 10% 0603
5B07	3198 018 51080	1μH 10% 0603
5B09	3198 018 51080	1μH 10% 0603
5B10	2422 549 44197	Bead 220Ω at 100MHz
5B11	2422 549 44197	Bead 220Ω at 100MHz
5B12	2422 549 44197	Bead 220Ω at 100MHz
5B13	3198 018 51080	1μH 10% 0603
5B14	3198 018 51080	1μH 10% 0603
5B17	2422 549 44197	Bead 220Ω at 100MHz
5B18	4822 157 11506	Bead 120Ω at 100MHz
5C01	2422 549 43769	Bead 30Ω at 100MHz
5C01	2422 549 45843	Bead 30Ω at 100MHz
5C03	2422 549 43769	Bead 30Ω at 100MHz
5C03	2422 549 45843	Bead 30Ω at 100MHz
5C31	4822 051 30181	180Ω 5% 0.062W
5C33	2422 549 43769	Bead 30Ω at 100MHz
5C33	2422 549 45843	Bead 30Ω at 100MHz
5C34	2422 549 43769	Bead 30Ω at 100MHz
5C34	2422 549 45843	Bead 30Ω at 100MHz
5C36	2422 549 43769	Bead 30Ω at 100MHz
5C36	2422 549 45843	Bead 30Ω at 100MHz
5C52	2422 549 43769	Bead 30Ω at 100MHz
5C52	2422 549 45843	Bead 30Ω at 100MHz
5C53	2422 549 44197	Bead 220Ω at 100MHz
5C54	2422 549 43769	Bead 30Ω at 100MHz
5C54	2422 549 45843	Bead 30Ω at 100MHz
5C55	2422 549 44197	Bead 220Ω at 100MHz
5C56	2422 549 44197	Bead 220Ω at 100MHz
5C59	2422 549 43769	Bead 30Ω at 100MHz
5C59	2422 549 45843	Bead 30Ω at 100MHz
5C70	2422 549 00195	Bead 40.4MHz
5D00	2422 549 44197	Bead 220Ω at 100MHz
5D01	2422 549 44197	Bead 220Ω at 100MHz
5D02	2422 549 44197	Bead 220Ω at 100MHz
5D03	2422 549 44197	Bead 220Ω at 100MHz
5D04	2422 549 44197	Bead 220Ω at 100MHz
5D05	2422 549 44197	Bead 220Ω at 100MHz
5D10	2422 549 44197	Bead 220Ω at 100MHz
5D11	2422 549 44197	Bead 220Ω at 100MHz
5D12	2422 549 44197	Bead 220Ω at 100MHz
5D13	2422 535 91025	22μH 10% 7A10N
5D14	2422 535 91025	22μH 10% 7A10N
5D15	2422 549 44197	Bead 220Ω at 100MHz
5D16	2422 549 44197	Bead 220Ω at 100MHz
5D17	2422 549 44197	Bead 220Ω at 100MHz
5D20	2422 549 44197	Bead 220Ω at 100MHz
5D21	2422 549 44197	Bead 220Ω at 100MHz
5D22	2422 549 44197	Bead 220Ω at 100MHz
5D23	2422 536 00137	33μH 10%
5D24	2422 536 00137	33μH 10%
5D25	2422 549 44197	Bead 220Ω at 100MHz
5D26	2422 549 44197	Bead 220Ω at 100MHz
5D27	2422 549 44197	Bead 220Ω at 100MHz
5F00	2422 549 45325	Bead 67Ω at 100MHz
5F01	2422 549 45325	Bead 67Ω at 100MHz
5F02	2422 549 45325	Bead 67Ω at 100MHz
5F03	2422 549 45325	Bead 67Ω at 100MHz
5F04	2422 549 45325	Bead 67Ω at 100MHz
5F06	2422 549 45325	Bead 67Ω at 100MHz
5F07	2422 549 45325	Bead 67Ω at 100MHz
5F08	2422 549 45325	Bead 67Ω at 100MHz
5F09	2422 549 45325	Bead 67Ω at 100MHz
5F0B	2422 549 45325	Bead 67Ω at 100MHz
5F0D	2422 549 00287	Bead 220Ω 100MHz
5F0H	2422 549 00287	Bead 220Ω 100MHz
5F0I	2422 549 42896	Bead 120Ω 100MHz
5F0L	2422 549 00287	Bead 220Ω 100MHz
5F0M	2422 549 00287	Bead 220Ω 100MHz
5F0N	2422 549 00287	Bead 220Ω 100MHz
5F0P	2422 549 42896	Bead 120Ω 100MHz
5F0Q	2422 549 00287	Bead 220Ω 100MHz
5F0R	2422 549 43062	Bead 600Ω at 100MHz
5F0S	2422 549 43062	Bead 600Ω at 100MHz
5F0T	4822 157 11716	Bead 30Ω at 100MHz
5F0W	2422 549 00287	Bead 220Ω 100MHz
5F10	2422 549 00287	Bead 220Ω 100MHz
5F11	2422 549 00287	Bead 220Ω 100MHz
5F22	2422 549 00287	Bead 220Ω 100MHz
5F23	2422 549 00287	Bead 220Ω 100MHz
5F60	2422 549 42896	Bead 120Ω 100MHz
5F61	2422 549 42896	Bead 120Ω 100MHz

5F62	2422 549 42896	Bead 120Ω 100MHz
5F83	2422 549 00287	Bead 220Ω 100MHz
5I01	2422 549 42896	Bead 120Ω 100MHz
5I21	2422 549 42896	Bead 120Ω 100MHz
5I50	4822 157 11716	Bead 30Ω at 100MHz
5I51	4822 157 11716	Bead 30Ω at 100MHz
5J00	2422 549 42896	Bead 120Ω 100MHz
5J01	2422 549 42896	Bead 120Ω 100MHz
5J02	2422 549 42896	Bead 120Ω 100MHz
5J03	2422 549 42896	Bead 120Ω 100MHz
5J04	2422 549 42896	Bead 120Ω 100MHz
5J05	2422 549 42896	Bead 120Ω 100MHz
5J06	2422 549 42896	Bead 120Ω 100MHz
5J07	2422 549 42896	Bead 120Ω 100MHz
5J13	2422 549 44197	Bead 220Ω at 100MHz
5L50	2422 549 43769	Bead 30Ω at 100MHz
5L50	2422 549 45843	Bead 30Ω at 100MHz
5L51	2422 549 44197	Bead 220Ω at 100MHz
5L52	2422 549 44197	Bead 220Ω at 100MHz
5LA1	2422 549 43769	Bead 30Ω at 100MHz
5LA2	2422 549 43062	Bead 600Ω at 100MHz
5LA3	2422 549 43769	Bead 30Ω at 100MHz
5LA3	2422 549 45843	Bead 30Ω at 100MHz
5LA4	2422 549 43062	Bead 600Ω at 100MHz
5LA5	2422 549 00287	Bead 220Ω 100MHz
5LA6	2422 549 00287	Bead 220Ω 100MHz
5LA7	2422 549 00287	Bead 220Ω 100MHz
5LA8	2422 549 00287	Bead 220Ω 100MHz
5LN0	2422 549 43062	Bead 600Ω at 100MHz
5LN1	2422 549 43769	Bead 30Ω at 100MHz
5LN2	2422 549 43062	Bead 600Ω at 100MHz
5LN3	2422 549 43062	Bead 600Ω at 100MHz
5LN4	2422 549 43062	Bead 600Ω at 100MHz
5M06	2422 549 44197	Bead 220Ω at 100MHz
5M07	2422 549 44197	Bead 220Ω at 100MHz
5M08	2422 549 44197	Bead 220Ω at 100MHz
5M40	2422 549 44197	Bead 220Ω at 100MHz
5M41	2422 549 44197	Bead 220Ω at 100MHz
5M42	2422 549 44197	Bead 220Ω at 100MHz
5M43	2422 549 44197	Bead 220Ω at 100MHz
5M44	2422 549 44197	Bead 220Ω at 100MHz
5M45	2422 549 44197	Bead 220Ω at 100MHz
5M46	2422 549 44197	Bead 220Ω at 100MHz
5M47	2422 549 44197	Bead 220Ω at 100MHz
5M48	2422 549 44197	Bead 220Ω at 100MHz
5M49	2422 549 44197	Bead 220Ω at 100MHz
5M4A	2422 549 44197	Bead 220Ω at 100MHz
5M4B	2422 549 44197	Bead 220Ω at 100MHz
5M60	2422 549 43062	Bead 600Ω at 100MHz
5N00	2422 549 44197	Bead 220Ω at 100MHz
5N01	2422 549 43769	Bead 30Ω at 100MHz
5N02	2422 549 43769	Bead 30Ω at 100MHz
5O00	2422 549 44197	Bead 220Ω at 100MHz
5O01	2422 549 44197	Bead 220Ω at 100MHz
5P02	2422 549 43769	Bead 30Ω at 100MHz
5P08	2422 549 43769	Bead 30Ω at 100MHz
5Q01	2422 549 43769	Bead 30Ω at 100MHz
5Q02	2422 549 43769	Bead 30Ω at 100MHz
5Q03	2422 549 43769	Bead 30Ω at 100MHz
5Q04	2422 549 43769	Bead 30Ω at 100MHz
5Q05	3198 018 51080	1µH 10% 0603
5Q06	3198 018 52280	2.2µH 10% 0603
5Q07	2422 549 44197	Bead 220Ω at 100MHz
5R00	2422 549 00287	Bead 220Ω 100MHz
5R01	2422 549 00287	Bead 220Ω 100MHz
5R02	2422 549 00287	Bead 220Ω 100MHz
5R03	2422 549 00287	Bead 220Ω 100MHz
5R04	2422 549 00287	Bead 220Ω 100MHz
5R05	2422 549 00287	Bead 220Ω 100MHz
5R06	2422 549 00287	Bead 220Ω 100MHz
5T01	2422 549 43769	Bead 30Ω at 100MHz
5T01	2422 549 45843	Bead 30Ω at 100MHz
5T02	2422 549 44197	Bead 220Ω at 100MHz
5T03	2422 549 44197	Bead 220Ω at 100MHz
5T04	2422 549 44197	Bead 220Ω at 100MHz
5T05	3198 018 31080	1µH 10% 0805
5T08	4822 051 20008	Jumper 0805
5T12	2422 549 43769	Bead 30Ω at 100MHz
5T12	2422 549 45843	Bead 30Ω at 100MHz
5U00	2422 536 00671	10µH 20%
5U01	2422 536 00671	10µH 20%
5U02	2422 536 00779	10µH 20%
5U03	2422 536 00779	10µH 20%
5U04	2422 536 00779	10µH 20%
5U05	2422 549 44197	Bead 220Ω at 100MHz
5U06	2422 549 44197	Bead 220Ω at 100MHz
5U07	2422 549 44197	Bead 220Ω at 100MHz
5U08	2422 549 44197	Bead 220Ω at 100MHz
5U09	2422 549 44197	Bead 220Ω at 100MHz
5U0A	2422 549 44197	Bead 220Ω at 100MHz
5U0B	2422 549 44197	Bead 220Ω at 100MHz
5U0C	2422 549 44197	Bead 220Ω at 100MHz
5U0D	2422 536 00671	10µH 20%
5U40	2422 536 00532	220µH 20%
5U60	2422 536 00671	10µH 20%
5U61	2422 536 00779	10µH 20%
5U62	2422 549 44197	Bead 220Ω at 100MHz
5U63	2422 549 44197	Bead 220Ω at 100MHz
5V01	2422 549 44197	Bead 220Ω at 100MHz
5V02	2422 549 44197	Bead 220Ω at 100MHz
5W04	2422 549 44197	Bead 220Ω at 100MHz
5W08	4822 157 71206	Bead 600Ω 100MHz
5W12	2422 549 43769	Bead 30Ω at 100MHz
5W14	3198 018 90050	Bead 1kΩ at 100MHz
5W15	3198 018 31080	1µH 10% 0805
5W15	3198 018 33370	0.33µH 10% 0805
5W15	4822 157 11892	0.22µH 10% 0805
5Z00	4822 051 30008	Jumper 0603
5Z01	4822 051 30759	75Ω 5% 0.062W
5Z02	4822 051 30008	Jumper 0603
5Z50	2422 549 43769	Bead 30Ω at 100MHz

6A52	9340 552 30115	BA591
6B20	4822 130 11397	BAS316
6B21	4822 130 11397	BAS316
6B22	4822 130 11397	BAS316
6B23	4822 130 11397	BAS316
6C52	9340 552 30115	BA591
6D10	4822 130 11397	BAS316
6D11	4822 130 11152	UDZ18B
6D80	4822 130 11397	BAS316
6F00	9322 134 46685	SML-310MT
6F01	9322 134 46685	SML-310MT
6F02	3198 020 55680	BZX384-C5V6
6F03	5322 130 34331	BAV70
6F06	5322 130 34331	BAV70
6F07	5322 130 34331	BAV70
6F08	4822 130 11397	BAS316
6F62	9322 134 46685	SML-310MT
6H00	9322 134 46685	SML-310MT
6H01	4822 130 11397	BAS316
6H03	4822 130 11397	BAS316
6I01	4822 130 11416	PDZ6.8B
6I02	4822 130 11416	PDZ6.8B
6I03	4822 130 11416	PDZ6.8B
6I04	4822 130 11416	PDZ6.8B
6I11	4822 130 11416	PDZ6.8B
6I12	4822 130 11416	PDZ6.8B
6I13	4822 130 11416	PDZ6.8B
6I14	4822 130 11416	PDZ6.8B
6I15	4822 130 11416	PDZ6.8B
6I16	4822 130 11416	PDZ6.8B
6I21	4822 130 11416	PDZ6.8B
6I22	4822 130 11416	PDZ6.8B
6I23	4822 130 11416	PDZ6.8B
6I24	4822 130 11416	PDZ6.8B
6I25	4822 130 11416	PDZ6.8B
6I26	4822 130 11416	PDZ6.8B
6I31	5322 130 34337	BAV99
6I32	4822 130 11416	PDZ6.8B
6I33	5322 130 34337	BAV99
6I34	4822 130 11416	PDZ6.8B
6I35	5322 130 34337	BAV99
6I36	4822 130 11416	PDZ6.8B
6I51	4822 130 11423	PLVA2656A
6I52	4822 130 11423	PLVA2656A
6I53	4822 130 11423	PLVA2656A
6I54	4822 130 11423	PLVA2656A
6I55	4822 130 11423	PLVA2656A
6I56	9340 553 52115	BAS321
6I57	9340 553 52115	BAS321
6I58	9340 553 52115	BAS321
6I59	9340 553 52115	BAS321
6I60	4822 130 80622	BAT54
6I80	4822 130 80622	BAT54
6I90	4822 130 11397	BAS316
6J07	4822 130 11397	BAS316
6J08	4822 130 80622	BAT54
6L00	4822 130 11397	BAS316
6L01	4822 130 11397	BAS316
6L02	4822 130 11397	BAS316
6L03	4822 130 11397	BAS316
6L04	4822 130 11397	BAS316
6M40	9340 566 10115	BAV99S
6M80	4822 130 11397	BAS316
6M81	4822 130 11397	BAS316
6O00	4822 130 11397	BAS316
6O01	4822 130 11397	BAS316
6P00	4822 130 11397	BAS316
6P10	4822 130 11397	BAS316
6P11	4822 130 11397	BAS316
6T01	9322 208 84685	BZG05C33
6U00	4822 130 11397	BAS316
6U01	4822 130 11397	BAS316
6U02	4822 130 11397	BAS316
6U07	4822 130 11397	BAS316
6U08	4822 130 11397	BAS316
6U09	4822 130 11397	BAS316
6U0B	9322 134 46685	SML-310MT
6U0C	9322 134 46685	SML-310MT
6U0D	9322 134 46685	SML-310MT
6U0E	9322 134 46685	SML-310MT
6U12	9322 165 17668	STPS2L30A
6U13	4822 130 11416	PDZ6.8B
6U40	4822 130 11397	BAS316
6U43	9340 548 69115	PDZ27B
6U60	4822 130 11397	BAS316
6U62	9340 548 58115	PDZ9.1B

7A00	9352 767 55557	PNX3000HL/N3
7A01	9340 425 30115	BC847BPN
7A03	9322 185 74668	LM324P
7A04	9322 187 67668	TS482IS
7A54	3198 010 42310	BC847BW
7A55	3198 010 42310	BC847BW
7B02		For SW see item 0802
7B03		For SW see item 0802
7B06	4822 209 17398	LD1117DT33
7B11	9352 798 11557	TDA9975EL/8/C2
7B11	9352 822 41557	TDA9975EL/8/C3
7B12	9322 213 50685	TS431AIL
7B13	4822 130 42804	BC817-25
7B30	3198 010 42310	BC847BW
7B31	3198 010 42310	BC847BW
7C00	9352 767 55557	PNX3000HL/N3
7C01	9340 425 30115	BC847BPN
7C02	3198 010 42310	BC847BW
7C05	9322 198 11685	L78L08ACU
7C31	3198 010 42310	BC847BW
7C54	3198 010 42310	BC847BW
7C55	3198 010 42310	BC847BW
7D09	3198 010 42310	BC847BW
7D10	9322 213 35668	LM339P
7D11	9340 425 20115	BC847BS
7D12	9340 425 20115	BC847BS
7D14	3198 010 42310	BC847BW
7D15	3198 010 44350	BC807-25W
7D16	9340 425 30115	BC847BPN
7D17	9340 219 30115	BC817-25W
7D18	9322 224 40668	FET FDS4559_NL
7D19	3198 010 42310	BC847BW
7D20	3198 010 44350	BC807-25W
7D21	9340 425 30115	BC847BPN
7D22	9340 219 30115	BC817-25W
7D23	9322 224 40668	FET FDS4559_NL
7D25	9340 425 30115	BC847BPN
7D26	9340 425 30115	BC847BPN
7D30	3198 010 42320	BC857BW
7D31	3198 010 42320	BC857BW
7D33	9322 185 74668	LM324P
7D40	9322 213 18668	LM393PW
7D44	3198 010 42310	BC847BW
7D45	3198 010 44350	BC807-25W
7D46	9340 425 30115	BC847BPN
7D47	9340 219 30115	BC817-25W
7D48	9322 224 40668	FET FDS4559_NL
7D49	3198 010 42310	BC847BW
7D50	3198 010 44350	BC807-25W
7D51	9340 425 30115	BC847BPN
7D52	9340 219 30115	BC817-25W
7D53	9322 224 40668	FET FDS4559_NL
7D60	3198 010 42320	BC857BW
7D62	3198 010 42320	BC857BW
7F01	9322 215 24668	LD1117DT12
7F02	9340 425 20115	BC847BS
7F03	3198 010 42310	BC847BW
7F04	9322 225 53668	EPCS16SI16N
7F05	9322 204 10685	SI3441BDV
7F06	3198 010 42310	BC847BW
7F08	9340 425 30115	BC847BPN
7F09	9340 425 20115	BC847BS
7F12	3198 010 42310	BC847BW
7F13	9322 206 45668	M25P05-AVMN6P
7F14	9322 213 42685	LD3985M25
7F15	9322 160 50668	LD1117DT25
7F16	9322 230 98671	PACIFIC3-N3(O)
7F17	9322 144 97668	LD1117DT
7F18	9322 225 54671	EP2C35F484C7N
7F19	9322 232 60671	MSM56V16160J
7F20	9352 711 46118	P87LPC760BDH
7F60	9322 220 39668	XCF02SVOG20C
7F62	3198 010 42310	BC847BW
7F64	3198 010 44310	PDTC114EU
7F65	9322 230 41668	XC3S250E-4FTG256C
7I03	9351 875 80118	74HCU04PW
7I21	9340 425 20115	BC847BS

7I50	9322 215 17668	M24C01-WMN6P
7I60	3198 010 44350	BC807-25W
7I61	9340 425 30115	BC847BPN
7I62	9340 219 30115	BC817-25W
7I80	9340 425 30115	BC847BPN
7I81	3198 010 44350	BC807-25W
7I82	9340 219 30115	BC817-25W
7I83	3198 010 42320	BC857BW
7I84	9340 425 30115	BC847BPN
7J00	9352 806 64557	PNX2015E/M1E02
7J00	9352 815 51557	PNX2015E/M2B02
7J01	9340 425 30115	BC847BPN
7J02	9340 425 30115	BC847BPN
7J08	9322 211 75685	SN74LVC1G126DCK
7L50	9322 204 09671	K4D261638F-LC40
7L50	9322 228 06671	K4D261638I-LC40
7L51	3198 010 42320	BC857BW
7L52	9322 206 22668	M24C64-WDW6P
7LA1	9322 204 63685	NCP303LSN10
7LA2	9340 425 30115	BC847BPN
7LA3	9340 425 30115	BC847BPN
7LA7		For SW see item 0802
7LB0	9322 204 63685	NCP303LSN10
7LB1	9322 204 63685	NCP303LSN10
7LB2	9322 204 63685	NCP303LSN10
7LB3	9322 204 63685	NCP303LSN10
7LB4	9322 204 63685	NCP303LSN10
7LB5	5322 130 60159	BC846B
7LB6	3198 010 44310	PDTC114EU
7LB7	3198 010 44310	PDTC114EU
7LB8	9340 560 35235	BSH112
7LB9	9340 560 35235	BSH112
7M00	9322 204 86668	LM3526M-LNOPB
7M40	9340 425 30115	BC847BPN
7M41	5322 130 60159	BC846B
7M80	9322 204 63685	NCP303LSN10
7M81	3198 010 44310	PDTC114EU
7M82	9322 213 50685	TS431AIL
7M83	5322 130 60159	BC846B
7M84	9322 213 50685	TS431AIL
7M85	5322 130 60159	BC846B
7M86	5322 130 60159	BC846B
7M87	5322 130 60159	BC846B
7M88	5322 130 60159	BC846B
7M8B	5322 130 60159	BC846B
7N00	9352 698 49518	ISP1561BM
7O00	9322 191 29671	DP83816AVNG
7P00	9322 173 43668	TPS2211AIDB
7P03	9322 160 60668	STV0701
7P15	9351 750 00118	74HC4066PW
7P16	3198 010 44310	PDTC114EU
7P17	3198 010 44310	PDTC114EU
7P20	3198 010 44310	PDTC114EU
7P21	3198 010 44310	PDTC114EU
7P22	3198 010 44310	PDTC114EU
7P23	3198 010 44310	PDTC114EU
7P31	9352 190 20118	74LVC573APW
7P32	9352 190 20118	74LVC573APW
7P34	9352 115 40118	74LVC245APW
7P76	9352 115 40118	74LVC245APW
7P77	9352 115 40118	74LVC245APW
7P80		For SW see item 0802
7P81	9352 115 40118	74LVC245APW
7R00	9322 223 87671	T6TE0TBG-0001
7R01	9322 214 25671	IC K4H561638F-UCB3
7R04	3198 010 42310	BC847BW
7R10	9322 213 50685	TS431AIL
7R11	9340 575 87118	PHD38N02LT
7R12	9340 425 30115	BC847BPN
7T01	9322 104 47668	L78M05CDT
7T02	9322 104 47668	L78M05CDT
7T10	3198 010 42310	BC847BW
7T11	5322 130 42718	BFS20
7U01	9322 160 70668	SI4936ADY
7U02	9322 160 70668	SI4936ADY
7U03	9322 160 70668	SI4936ADY
7U04	9322 182 77668	L6910
7U05	9322 182 77668	L6910
7U06	9322 182 77668	L6910
7U08	9340 425 20115	BC847BS
7U09	9340 425 20115	BC847BS
7U10	9340 425 20115	BC847BS
7U20	9340 425 30115	BC847BPN
7U21	9340 425 10115	BC857BS
7U23	3198 010 42310	BC847BW
7U40	9340 560 35235	BSH112
7U41	3198 010 42310	BC847BW
7U61	9322 160 70668	SI4936ADY
7U64	9322 182 77668	L6910
7U66	9340 425 20115	BC847BS
7U67	9340 425 30115	BC847BPN
7V00	9352 800 63557	PNX8550EH/M2/S1
7V01	9322 225 58671	K4H511638C-UCCC
7V02	9322 225 58671	K4H511638C-UCCC
7V10	3198 010 44310	PDTC114EU
7W10	3198 010 42310	BC847BW
7W11	5322 130 42718	BFS20
7W13	9352 684 56115	74LVC1G04GW
7W14	9322 217 28668	LD1117DT18
7W17	9352 732 45557	TDA10046AHT/C1
7W18	9340 425 30115	BC847BPN
7W19	9340 425 30115	BC847BPN
7Z11	9352 115 40118	74LVC245APW
7Z12	9352 115 40118	74LVC245APW

External I/O Panel [BE]

Various

1E50	2422 025 17601	Connector 40p f
1I01⚠	2422 025 19472	Sock. SCART 21p f Bk
1I02⚠	2422 025 19472	Sock. SCART 21p f Bk

⊣⊢

2O01	2020 552 94427	100pF 5% 50V
2O02	4822 126 13879	220nF +80-20% 16V
2O03	2238 586 59812	100nF 20% 50V 0603
2O06	2020 552 94427	100pF 5% 50V
2O07	2020 004 90283	10μF 20% 10V 1206
2O08	2020 004 90283	10μF 20% 10V 1206
2O09	2238 586 59812	100nF 20% 50V 0603
2O10	2020 552 94427	100pF 5% 50V
2O11	2020 004 90283	10μF 20% 10V 1206
2O12	2238 586 59812	100nF 20% 50V 0603
2O14	2238 586 59812	100nF 20% 50V 0603
2O15	2238 586 59812	100nF 20% 50V 0603
2O16	2020 552 94427	100pF 5% 50V
2O17	2238 586 59812	100nF 20% 50V 0603
2O18	4822 126 14241	330pF 0603 50V
2O23	2238 586 59812	100nF 20% 50V 0603
2O24	4822 124 12095	100μF 20% 16V
2O25	4822 126 14585	100nF 10% 0805 50V
2O26	2022 552 05679	1μF 10% 16V 0805
2O29	2020 552 94427	100pF 5% 50V
2O30	2020 552 94427	100pF 5% 50V
2O31	2020 552 94427	100pF 5% 50V
2O32	2020 552 94427	100pF 5% 50V
2O33	4822 126 14241	330pF 0603 50V
2O35	2238 586 59812	100nF 20% 50V 0603
2O36	2238 586 59812	100nF 20% 50V 0603
2O37	2238 586 59812	100nF 20% 50V 0603
2O38	2238 586 59812	100nF 20% 50V 0603
2O39	2020 004 90283	10μF 20% 10V 1206
2O40	4822 124 23002	10μF 16V
2O42	4822 124 23002	10μF 16V
2O44	4822 124 23002	10μF 16V
2O46	4822 124 23002	10μF 16V
2O52	4822 124 12313	22μF 10V 20%
2O53	2238 586 59812	100nF 20% 50V 0603
2O54	2238 586 59812	100nF 20% 50V 0603
2O55	2020 004 90283	10μF 20% 10V 1206
2O56	2238 586 59812	100nF 20% 50V 0603
2O57	2020 004 90283	10μF 20% 10V 1206
2O58	2238 586 59812	100nF 20% 50V 0603
2O59	2020 004 90283	10μF 20% 10V 1206

-ww-

3999	4822 051 30101	100Ω 5% 0.062W
3I01	4822 051 30101	100Ω 5% 0.062W
3I02	4822 051 30102	1kΩ 5% 0.062W
3I03	4822 051 30223	22kΩ 5% 0.062W
3I04	4822 051 30102	1kΩ 5% 0.062W
3I05	4822 051 30102	1kΩ 5% 0.062W
3I06	4822 051 30223	22kΩ 5% 0.062W
3I07	4822 051 30102	1kΩ 5% 0.062W
3I08	4822 051 30109	10Ω 5% 0.062W
3I09	4822 051 30109	10Ω 5% 0.062W
3I10	4822 051 30109	10Ω 5% 0.062W
3O01	4822 051 30101	100Ω 5% 0.062W
3O02	4822 051 30561	560Ω 5% 0.062W
3O03	4822 051 30391	390Ω 5% 0.062W
3O04	4822 051 30223	22kΩ 5% 0.062W
3O05	4822 051 30223	22kΩ 5% 0.062W
3O06	4822 051 30689	68Ω 5% 0.063W 0603
3O07	4822 051 30101	100Ω 5% 0.062W
3O08	4822 051 30472	4.7Ω 5% 0.062W
3O09	4822 051 30223	22kΩ 5% 0.062W
3O10	4822 051 30223	22kΩ 5% 0.062W
3O11	4822 051 30101	100Ω 5% 0.062W
3O12	4822 117 13632	100kΩ 1% 0603 0.62W
3O13	4822 117 12925	47kΩ 1% 0.063W 0603
3O14	4822 051 30101	100Ω 5% 0.062W
3O15	4822 051 30101	100Ω 5% 0.062W
3O16	3198 021 38220	8.2kΩ 5% 0.062W 0603
3O17	4822 051 30332	3.3Ω 5% 0.062W
3O18	4822 117 13632	100kΩ 1% 0603 0.62W
3O19	4822 051 30101	100Ω 5% 0.062W
3O20	4822 117 12925	47kΩ 1% 0.063W 0603
3O21	4822 117 13632	100kΩ 1% 0603 0.62W
3O22	4822 117 13632	100kΩ 1% 0603 0.62W
3O23	4822 051 30102	1kΩ 5% 0.062W
3O24	4822 117 13632	100kΩ 1% 0603 0.62W
3O25	4822 051 30223	22kΩ 5% 0.062W
3O26	4822 051 30101	100Ω 5% 0.062W
3O27	4822 117 13632	100kΩ 1% 0603 0.62W
3O28	4822 051 30759	75Ω 5% 0.062W
3O29	4822 051 30223	22kΩ 5% 0.062W
3O30	4822 117 13632	100kΩ 1% 0603 0.62W
3O31	3198 021 38220	8.2kΩ 5% 0.062W 0603
3O32	4822 051 30332	3.3Ω 5% 0.062W
3O33	4822 051 30223	22kΩ 5% 0.062W
3O34	4822 117 13632	100kΩ 1% 0603 0.62W
3O35	4822 051 30101	100Ω 5% 0.062W
3O36	4822 051 30101	100Ω 5% 0.062W
3O37	4822 051 30681	680Ω 5% 0.062W
3O38	4822 051 30759	75Ω 5% 0.062W
3O40	4822 051 30101	100Ω 5% 0.062W
3O41	4822 051 30101	100Ω 5% 0.062W
3O42	4822 051 30101	100Ω 5% 0.062W
3O43	4822 051 30759	75Ω 5% 0.062W
3O44	4822 051 30101	100Ω 5% 0.062W
3O45	4822 051 30689	68Ω 5% 0.063W 0603
3O46	4822 051 30101	100Ω 5% 0.062W
3O47	4822 051 30101	100Ω 5% 0.062W
3O48	4822 051 30102	1kΩ 5% 0.062W
3O49⚠	4822 117 11151	1Ω 5%
3O51	4822 051 30759	75Ω 5% 0.062W
3O52	4822 051 30689	68Ω 5% 0.063W 0603
3O54	4822 051 30759	75Ω 5% 0.062W
3O55	4822 051 30759	75Ω 5% 0.062W
3O57	4822 051 30101	100Ω 5% 0.062W
3O59	4822 051 30759	75Ω 5% 0.062W
3O60	4822 051 30102	1kΩ 5% 0.062W
3O61	4822 051 30759	75Ω 5% 0.062W
3O62	4822 051 30759	75Ω 5% 0.062W
3O63	4822 051 30101	100Ω 5% 0.062W
3O64	4822 051 30101	100Ω 5% 0.062W
3O65	4822 051 30223	22kΩ 5% 0.062W
3O66	4822 051 30101	100Ω 5% 0.062W
3O67	4822 051 30101	100Ω 5% 0.062W
3O68	4822 051 30101	100Ω 5% 0.062W
3O70	4822 051 30101	100Ω 5% 0.062W
3O72	4822 051 30101	100Ω 5% 0.062W
3O74	4822 051 30101	100Ω 5% 0.062W
3O75	4822 051 30102	1kΩ 5% 0.062W
3O76	4822 051 30101	100Ω 5% 0.062W
3O77	4822 051 30102	1kΩ 5% 0.062W
3O78	4822 051 30101	100Ω 5% 0.062W
3O79	4822 051 30102	1kΩ 5% 0.062W
3O80	4822 051 30102	1kΩ 5% 0.062W
3O81	4822 051 30102	1kΩ 5% 0.062W
3O82	4822 051 30151	150Ω 5% 0.062W
3O83	4822 051 30102	1kΩ 5% 0.062W
3O91	4822 051 30151	150Ω 5% 0.062W
3O93	4822 051 30102	1kΩ 5% 0.062W
3O95	4822 051 30151	150Ω 5% 0.062W
3O97	4822 051 30151	150Ω 5% 0.062W

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5O00	4822 157 11716	Bead 30Ω at 100MHz

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6O01	4822 130 11416	PDZ6.8B
6O02	9322 129 41685	BZM55-C12
6O03	4822 130 11416	PDZ6.8B
6O04	4822 130 11416	PDZ6.8B
6O05	4822 130 11397	BAS316
6O06	4822 130 11397	BAS316
6O07	4822 130 11416	PDZ6.8B
6O08	4822 130 11416	PDZ6.8B
6O09	4822 130 11416	PDZ6.8B
6O10	4822 130 11416	PDZ6.8B
6O11	4822 130 11416	PDZ6.8B
6O12	4822 130 11416	PDZ6.8B
6O13	4822 130 11416	PDZ6.8B
6O14	4822 130 11416	PDZ6.8B
6O15	4822 130 11416	PDZ6.8B
6O16	4822 130 11416	PDZ6.8B
6O17	4822 130 11416	PDZ6.8B
6O18	4822 130 11397	BAS316
6O19	4822 130 11416	PDZ6.8B
6O20	4822 130 11416	PDZ6.8B
6O21	4822 130 11416	PDZ6.8B

6O22	9322 129 41685	BZM55-C12
6O24	4822 130 11416	PDZ6.8B
6O25	4822 130 11416	PDZ6.8B
6O27	4822 130 11416	PDZ6.8B
6O29	4822 130 11416	PDZ6.8B
6O30	4822 130 11416	PDZ6.8B
6O31	4822 130 11416	PDZ6.8B
6O32	4822 130 11416	PDZ6.8B
6O33	4822 130 11416	PDZ6.8B
6O34	4822 130 11416	PDZ6.8B
6O35	4822 130 11416	PDZ6.8B
6O36	4822 130 11416	PDZ6.8B
6O37	4822 130 11416	PDZ6.8B
6O38	9322 102 64685	UDZ2.7B

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7O00	9351 869 40118	74HC4053PW
7O01	3198 010 42310	BC847BW
7O02	3198 010 42310	BC847BW
7O03	3198 010 42310	BC847BW
7O04	3198 010 42310	BC847BW
7O05	3198 010 42310	BC847BW
7O06	3198 010 42310	BC847BW
7O07	3198 010 42310	BC847BW
7O08	3198 010 42310	BC847BW
7O09	3198 010 42310	BC847BW
7O10	9351 869 40118	74HC4053PW
7O11	3198 010 42310	BC847BW
7O12	3198 010 42310	BC847BW
7O13	3198 010 42310	BC847BW
7O15	3198 010 42310	BC847BW
7O21	9340 425 20115	BC847BS
7O24	3198 010 42310	BC847BW
7O25	3198 010 42310	BC847BW

Side I/O Panel rear facing [D]

Various

1301	4822 267 10484	YKF51-5359
1302	2422 026 05808	Cinch 3p f Ye
1303	2422 026 05059	Connector Phone
1304	2422 025 10655	Connector 11p m
1308	2422 025 18984	Sock. USB 4p f 2/2.5
1309	2422 025 09406	Connector 4p m
1310	2422 025 10768	Connector 3p m

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2301	4822 126 11785	47pF 5% 50V 0603
2302	4822 126 11785	47pF 5% 50V 0603
2303	4822 122 33761	22pF 5% 50V
2304	4822 126 11785	47pF 5% 50V 0603
2305	2020 552 94427	100pF 5% 50V
2306	2020 552 94427	100pF 5% 50V
2307	2238 916 15641	22nF 10% 25V 0603
2308	2238 916 15641	22nF 10% 25V 0603
2309	5322 126 11583	10nF 10% 50V 0603
2310	5322 126 11583	10nF 10% 50V 0603
2311	4822 122 33761	22pF 5% 50V
2312	2020 004 90297	100µF 20% 16V

-WW-

3301	4822 051 30759	75Ω 5% 0.062W
3302	4822 051 30759	75Ω 5% 0.062W
3303	4822 051 30109	10Ω 5% 0.062W
3304	4822 051 30101	100Ω 5% 0.062W
3305	4822 051 30109	10Ω 5% 0.062W
3306	4822 051 30101	100Ω 5% 0.062W
3307	4822 051 30101	100Ω 5% 0.062W
3308	4822 051 30101	100Ω 5% 0.062W
3309	4822 117 13632	100kΩ 1% 0603 0.62W
3310	4822 051 30101	100Ω 5% 0.062W
3311	4822 117 13632	100kΩ 1% 0603 0.62W
3312	4822 051 30103	10kΩ 5% 0.062W
3313	4822 051 30103	10kΩ 5% 0.062W

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5300	2422 549 44197	Bead 220Ω at 100MHz
5301	4822 051 20008	Jumper 0805
5302	4822 051 20008	Jumper 0805

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6301	9322 146 61685	DF3A6.8FU
6302	9322 146 61685	DF3A6.8FU
6303	9322 146 61685	DF3A6.8FU
6304	9322 146 61685	DF3A6.8FU
6305	9322 146 61685	DF3A6.8FU
6306	9322 146 61685	DF3A6.8FU
6307	9322 146 61685	DF3A6.8FU

Side I/O Panel [D]

Various

1001	2422 026 05133	Connector SVHS 4p f
1002	2422 026 05807	Sckt Cinch 3p f YeWhRd
1005	2422 033 00486	Socket USB 4p F
1010	4822 267 31014	Sckt headphone
1H01	2422 033 00486	Socket USB 4p F
1M36	2422 025 10655	Connector 11p m
1M37	2422 025 18735	Connector 11p m

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2003	2022 552 05679	1µF 10% 16V 0805
2004	3198 016 36810	680pF 25V 0603
2005	2020 552 94427	100pF 5% 50V
2006	3198 016 36810	680pF 25V 0603
2007	2020 552 94427	100pF 5% 50V
2008	2238 916 15641	22nF 10% 25V 0603
2009	5322 126 11583	10nF 10% 50V 0603
2010	2238 916 15641	22nF 10% 25V 0603
2011	5322 126 11583	10nF 10% 50V 0603
2903	2020 552 94427	100pF 5% 50V
2904	2020 552 94427	100pF 5% 50V
2905	2238 916 15641	22nF 10% 25V 0603
2905	3198 017 33330	33nF 20% 16V 0603
2906	2238 916 15641	22nF 10% 25V 0603
2906	3198 017 33330	33nF 20% 16V 0603
2907	4822 126 14249	560pF 10% 50V 0603
2908	4822 126 14249	560pF 10% 50V 0603

-WW-

3000	4822 051 30759	75Ω 5% 0.062W
3004	4822 051 30759	75Ω 5% 0.062W
3008	4822 051 30222	2.2kΩ 5% 0.062W
3009	4822 051 30102	1kΩ 5% 0.062W
3010	4822 051 30333	33kΩ 5% 0.062W
3011	4822 051 30392	3.9Ω 5% 0.063W 0603
3012	4822 051 30102	1kΩ 5% 0.062W
3013	4822 051 30333	33kΩ 5% 0.062W
3016	4822 051 30103	10kΩ 5% 0.062W
3020	4822 051 30103	10kΩ 5% 0.062W
3902	4822 051 30759	75Ω 5% 0.062W
3904	4822 051 30759	75Ω 5% 0.062W
3905	4822 051 30222	2.2kΩ 5% 0.062W
3906	4822 051 30102	1kΩ 5% 0.062W
3907	4822 051 30333	33kΩ 5% 0.062W
3908	4822 051 30102	1kΩ 5% 0.062W
3909	4822 051 30333	33kΩ 5% 0.062W
3910	4822 051 30392	3.9Ω 5% 0.063W 0603
3911	4822 051 30103	10kΩ 5% 0.062W
3912	4822 051 30103	10kΩ 5% 0.062W
3999	4822 051 30102	1kΩ 5% 0.062W

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5000	2422 549 44197	Bead 220Ω at 100MHz
5001	2422 549 44197	Bead 220Ω at 100MHz

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6000	4822 130 11416	PDZ6.8B
6001	4822 130 11416	PDZ6.8B
6002	4822 130 11416	PDZ6.8B
6003	4822 130 11416	PDZ6.8B
6004	4822 130 11416	PDZ6.8B
6005	4822 130 11416	PDZ6.8B
6006	4822 130 11416	PDZ6.8B
6007	4822 130 11416	PDZ6.8B
6008	4822 130 11416	PDZ6.8B
6009	4822 130 11416	PDZ6.8B
6010	4822 130 11416	PDZ6.8B
6011	4822 130 11416	PDZ6.8B
6900	4822 130 11416	PDZ6.8B
6901	4822 130 11416	PDZ6.8B
6902	4822 130 11416	PDZ6.8B
6903	4822 130 11416	PDZ6.8B
6904	4822 130 11416	PDZ6.8B
6905	4822 130 11416	PDZ6.8B
6906	4822 130 11416	PDZ6.8B
6907	4822 130 11416	PDZ6.8B
6908	4822 130 11416	PDZ6.8B
6909	4822 130 11416	PDZ6.8B
6910	4822 130 11416	PDZ6.8B
6911	4822 130 11416	PDZ6.8B

Control Board [E]

Various

1309	4822 276 13775	Switch 1p 0.1A 12V
1310	4822 276 13775	Switch 1p 0.1A 12V
1311	4822 276 13775	Switch 1p 0.1A 12V
1312	4822 276 13775	Switch 1p 0.1A 12V
1313	4822 276 13775	Switch 1p 0.1A 12V
1314	4822 276 13775	Switch 1p 0.1A 12V
1684	4822 267 10459	Connector 3p
1701	4822 276 13775	Switch 1p 0.1A 12V
1702	4822 276 13775	Switch 1p 0.1A 12V
1703	4822 276 13775	Switch 1p 0.1A 12V
1704	4822 276 13775	Switch 1p 0.1A 12V
1705	4822 276 13775	Switch 1p 0.1A 12V
1706	4822 276 13775	Switch 1p 0.1A 12V
1M01	4822 267 10459	Connector 3p

-WW-

3002	4822 051 30151	150Ω 5% 0.062W
3003	4822 051 30391	390Ω 5% 0.062W
3004	4822 051 30561	560Ω 5% 0.062W
3005	3198 021 31820	1.8kΩ 5% 0.062W 0603
3006	4822 117 12968	820Ω 5% 0.62W
3318	4822 051 30151	150Ω 5% 0.062W
3318	4822 051 30621	620R00 5% 0,062W
3319	2322 702 60112	1.1kΩ 5% 0603
3319	4822 051 30391	390Ω 5% 0.062W
3320	2322 702 60201	200Ω 5% 0603
3320	3198 021 31820	1.8kΩ 5% 0.062W 0603
3321	4822 051 30391	390Ω 5% 0.062W
3321	4822 117 12968	820Ω 5% 0.62W
3322	4822 051 30008	Jumper 0603
3323	4822 051 30008	Jumper 0603
3324	2322 702 60202	2kΩ 5% 0603
3324	4822 051 30561	560Ω 5% 0.062W
3999	4822 117 12968	820Ω 5% 0.62W

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6306	4822 130 11148	UDZ4.7B
6306	4822 130 11416	PDZ6.8B

LED Panel [J]

Various

1040	9322 223 97668	TSOP36236 IR
1870	4822 265 31067	Connector 7p m
1M21	2422 025 18753	Connector 6p m

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2040	4822 124 12095	100µF 20% 16V
2070	4822 124 12095	100µF 20% 16V
2801	2020 552 96637	10µF 10% 6.3V 0805
2802	2020 552 96637	10µF 10% 6.3V 0805

-WW-

3040	4822 117 13597	330Ω 5% 0.01W 0402
3041	4822 117 13606	10kΩ 5% 0.01W 0402
3042	3198 031 06820	6.8kΩ 5% 0.01W 0402
3051	4822 117 13597	330Ω 5% 0.01W 0402
3053	4822 117 13606	10kΩ 5% 0.01W 0402
3055	4822 117 13606	10kΩ 5% 0.01W 0402
3058	4822 117 13606	10kΩ 5% 0.01W 0402
3059	4822 117 13606	10kΩ 5% 0.01W 0402
3061	4822 117 13597	330Ω 5% 0.01W 0402
3063	4822 117 13606	10kΩ 5% 0.01W 0402
3065	4822 117 13606	10kΩ 5% 0.01W 0402
3068	4822 117 13606	10kΩ 5% 0.01W 0402
3069	4822 117 13606	10kΩ 5% 0.01W 0402
3071	4822 117 13603	33kΩ 5% 0402
3072	4822 117 13606	10kΩ 5% 0.01W 0402
3074	4822 117 13606	10kΩ 5% 0.01W 0402
3077	4822 117 13606	10kΩ 5% 0.01W 0402
3079	2322 705 70475	4.7MΩ 5% 0402
3802	4822 051 30151	150Ω 5% 0.062W
3803	4822 051 30221	220Ω 5% 0.062W
3804	4822 051 30151	150Ω 5% 0.062W
3805	3198 021 31080	1Ω 5% 0603

3809	3198 021 32250	2.2MΩ 5% 0603
3810	3198 021 32250	2.2MΩ 5% 0603
3999	4822 117 13606	10kΩ 5% 0.01W 0402
4806	4822 051 30008	Jumper 0603
4807	4822 051 30008	Jumper 0603
4809	4822 051 30008	Jumper 0603
4815	4822 051 30008	Jumper 0603
9120	4822 117 13605	Jumper 0402
9121	4822 117 13605	Jumper 0402

6051	4822 130 83915	TLMV3100
6801	9322 192 35676	SPR-325MVW
6809	4822 130 11564	UDZ3.9B

7051	3198 010 42310	BC847BW
7052	4822 130 60373	BC856B
7061	3198 010 42310	BC847BW
7062	4822 130 60373	BC856B
7070	9322 218 83685	TEMT6000
7071	3198 010 42310	BC847BW
7802	9322 206 81667	TSOP34836YA1
7802	9322 207 16667	TSOP34836LL1B
7803	5322 130 60159	BC846B
7805	5322 130 60159	BC846B

Standby & Audio Panel [SA]

Various

1305	4822 267 10735	Connector 3p
1306⚠	2422 025 16374	Connector 2p m
1318	2422 025 08149	Connector 6p m
1M03	2422 025 10771	Connector 10p m
1M46	2422 025 10655	Connector 11p m
1M63	2422 025 09405	Connector 2p m
1M64	2422 025 10769	Connector 9p m

2102	4822 124 81151	22µF 50V
2103	2238 916 15641	22nF 10% 25V 0603
2109	3198 017 34730	47nF 16V 0603
2129	5322 126 11578	1nF 10% 50V 0603
2131	2238 586 15641	22nF 10% 50V 0603
2132	4822 124 40207	100µF 20% 25V
2140	4822 124 40248	10µF 20% 63V
2141	4822 126 14583	470nF 10% 16V 0805
2145	4822 126 14583	470nF 10% 16V 0805
2152	4822 121 70162	10nF 5% 400V
2154	3198 017 31530	15nF 20% 50V 0603
2160	4822 124 21913	1µF 20% 63V
2163	4822 124 81151	22µF 50V
2506⚠	2022 554 04155	470pF 20% 250V
2507	4822 126 13682	100pF 5% 1kV
2508	4822 124 40764	22µF 100V
2510	2020 021 91668	2200µF 20% 10V
2511	4822 124 12379	220µF 25V
2513	2222 930 56627	2.2nF 10% 200V 0805
2533	4822 124 40207	100µF 20% 25V
2534	2022 552 05679	1µF 10% 16V 0805
2535	5322 126 11583	10nF 10% 50V 0603
2536	5322 126 11583	10nF 10% 50V 0603
2537	4822 126 14238	2.2nF 50V 0603
2538	2020 552 96683	220nF 10% 50V
2539	2022 552 05679	1µF 10% 16V 0805

3104	3198 039 22090	22Ω 1%
3106	4822 051 30333	33kΩ 5% 0.062W
3108	2322 193 14477	0.47Ω 5%
3110	4822 051 30563	56kΩ 5% 0.062W
3110	4822 117 12864	82kΩ 5% 0.6W
3112	4822 051 30102	1kΩ 5% 0.062W
3113	5322 117 13053	6.8kΩ 1% 0.063W 0603
3122	4822 051 30471	47Ω 5% 0.062W
3123	5322 117 13053	6.8kΩ 1% 0.063W 0603
3124	3198 021 32290	22Ω 5% 0603
3124	4822 051 30221	220Ω 5% 0.062W
3125	4822 051 30471	47Ω 5% 0.062W
3126	4822 117 13632	100kΩ 1% 0603 0.62W
3127	4822 117 13613	2.2Ω 5% 0603
3128	4822 051 30153	15kΩ 5% 0.062W
3132	4822 051 30333	33kΩ 5% 0.062W
3134	4822 051 30102	1kΩ 5% 0.062W
3135	4822 051 30331	330Ω 5% 0.062W
3140	4822 117 12925	47kΩ 1% 0.063W 0603
3141	4822 051 30471	47Ω 5% 0.062W
3146	4822 051 30472	4.7Ω 5% 0.062W
3148	4822 051 30333	33kΩ 5% 0.062W
3149	4822 051 30474	470kΩ 5% 0.062W
3152	4822 051 30471	47Ω 5% 0.062W
3153	4822 117 12925	47kΩ 1% 0.063W 0603
3159	4822 051 30479	47Ω 5% 0.062W
3160	4822 051 30123	12kΩ 5% 0.1W
3161	4822 051 30123	12kΩ 5% 0.1W
3171	4822 051 30101	100Ω 5% 0.062W
3172	4822 051 30333	33kΩ 5% 0.062W
3175	4822 051 30103	10kΩ 5% 0.062W
3176	4822 051 30103	10kΩ 5% 0.062W
3511	4822 051 30683	68kΩ 5% 0.062W
3512	4822 051 30471	47Ω 5% 0.062W
3513	4822 051 30333	33kΩ 5% 0.062W
3528	4822 051 30472	4.7Ω 5% 0.062W
3529	4822 051 30101	100Ω 5% 0.062W
3531	4822 051 30153	15kΩ 5% 0.062W
3532	4822 051 30223	22kΩ 5% 0.062W
3534	4822 051 30102	1kΩ 5% 0.062W
3535	4822 051 30102	1kΩ 5% 0.062W
3536	4822 051 30102	1kΩ 5% 0.062W
3538	4822 051 30101	100Ω 5% 0.062W
3539	4822 051 30221	220Ω 5% 0.062W
3543	4822 051 30223	22kΩ 5% 0.062W
3560	4822 051 30682	6.8Ω 5% 0.062W
3561	4822 051 30392	3.9Ω 5% 0.063W 0603
3562	3198 021 34780	4.7Ω 5% 0603
3999	4822 051 30682	6.8Ω 5% 0.062W

5103	4822 526 10704	Bead 50 Ω at 100MHz
5104	4822 157 11411	Bead 80Ω at 100MHz
5105	2422 549 43769	Bead 30Ω at 100MHz
5106	4822 157 50961	22µH
5107	2422 549 42896	Bead 120Ω 100MHz
5110	4822 157 71736	10µH 5%
5500⚠	2422 531 00076	BS25412-01 B
5504	2422 536 00776	33µH 10%
5505	4822 157 11411	Bead 80Ω at 100MHz
5506	4822 157 11411	Bead 80Ω at 100MHz
5507	2422 536 00433	15µH 10%
5508⚠	4822 157 11832	400µH 3A

6101	9322 099 61685	BYG10J
6102	4822 130 11397	BAS316
6103	5322 130 31938	BYV27-200
6105	4822 130 11522	UDZ15B
6107	4822 130 11572	STPS8H100F
6115	4822 130 11522	UDZ15B
6130	9322 129 41685	BZM55-C12
6132	4822 130 11416	PDZ6.8B
6133	4822 130 11397	BAS316
6134	4822 130 11397	BAS316
6140	4822 130 83755	BYW36
6144	4822 130 11397	BAS316
6148	4822 130 11397	BAS316
6149	3198 020 55680	BZX384-C5V6
6504	9322 203 12673	BYV27-600
6531	4822 130 11522	UDZ15B
6532	4822 130 11397	BAS316
6534	9340 548 47115	PDZ3.3B
6562	9340 548 67115	PDZ22B

7100	9352 700 18518	TEA1533AT/N1
7101	9340 219 30115	BC817-25W
7102	9322 206 17687	FET STP4NK80ZFP
7131	9340 557 69127	PHX9NQ20T
7140	3198 010 42310	BC847BW
7501⚠	9322 149 04682	TCET1102
7506	3198 010 42310	BC847BW
7507	3198 010 42310	BC847BW
7511	9322 192 16685	TS2431AI
7531	9340 436 50115	BSP030
7532	3198 010 42310	BC847BW
7534	3198 010 42320	BC857BW
7560	9340 219 30115	BC817-25W

11. Revision List

Manual xxxx xxx xxxx.0
- First release.

Manual xxxx xxx xxxx.1
- **Chapter 1:** Connection overviews updated and 32PF9731D/10 added.
- **Chapter 4:** Figure “Rear cover removal” added.
- **Chapter 5:** Figure 5.16 resized.
- **Chapter 5:** Fuse for “Sanken” supply mentioned and added to the spare parts list.
- **Chapter 7:** Diagram B8A added.
- **Chapter 10:** Spare parts list updated.
- **All Chapters:** Small textual corrections made.

Manual xxxx xxx xxxx.2
- **All Chapters:** information for 42PF9641D/10 added.
- **Chapter 4:** Service positions (use of foam bars) changed.
- **Chapter 5:** Service Mode instructions for Ambi Light changed.
- **Chapter 5:** Start-up diagrams updated.
- **Chapter 5:** ComPair order codes updated.
- **Chapter 5:** Error definitions of error 1, 2 and 4 changed
- **Chapter 8:** Tint settings changed.
- **Chapter 10:** Spare parts list updated with all model numbers.